

## Recombinant Human CD47 Protein, FITC conjugated

Cat. No. CD47-7865HF    Lot. No. (See product label)

### SPECIFICATION

|                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
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| Product Overview | FITC conjugated recombinant human CD47(Met1-Pro139) fused with six amino acids (LEVLFQ) at the C-terminus was expressed in HEK293.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Species          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Source           | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| ProteinLength    | Met1-Pro139, 128                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Description      | <p>CD47 contains 1 Ig-like V-type (immunoglobulin-like) domain and is a receptor for the C-terminal cell binding domain of thrombospondin. It may play a role in membrane transport and signal transduction. CD47 is also a membrane protein, which is involved in the increase in intracellular calcium concentration that occurs upon cell adhesion to extracellular matrix. It is very broadly distributed on normal adult tissues, as well as ovarian tumors, being especially abundant in some epithelia and the brain. CD47 may play a role in membrane transport and/or integrin dependent signal transduction. It may prevent premature elimination of red blood cells. It also may be involved in membrane permeability changes induced following virus infection. By acting as an adhesion receptor for THBS1 on platelets, CD47 plays a role in both cell adhesion and in the modulation of integrins. It also plays an important role in memory formation and synaptic plasticity in the hippocampus.</p> |
| Form             | Lyophilized                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Molecular Mass   | 14.5 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

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|                                     |                                                                                                                                                                                                               |
|-------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>N-terminal Sequence Analysis</b> | Gln 19                                                                                                                                                                                                        |
| <b>Endotoxin</b>                    | < 1.0 EU/ µg protein as determined by the LAL method.                                                                                                                                                         |
| <b>Purity</b>                       | > 90 % as determined by SDS-PAGE                                                                                                                                                                              |
| <b>Characteristic</b>               | <p>Disulfide-linked homodimer</p> <p>Labeled with FITC via amines</p> <p>Excitation source: 488 nm spectral line, argon-ion laser</p> <p>Excitation Wavelength: 488 nm</p> <p>Emission Wavelength: 535 nm</p> |
| <b>Stability</b>                    | Samples are stable for up to 12 months from date of receipt at -70 centigrade.                                                                                                                                |
| <b>Storage</b>                      | Store it under sterile conditions at -20 to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.                                           |
| <b>Storage Buffer</b>               | Lyophilized from sterile PBS, pH 7.4. Normally 5%-8% trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.                                                                   |
| <b>Shipping</b>                     | Shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise.                                   |
| <b>Conjugation</b>                  | FITC                                                                                                                                                                                                          |

## GENE INFORMATION

|                  |                                     |
|------------------|-------------------------------------|
| <b>Gene Name</b> | CD47 CD47 molecule [ Homo sapiens ] |
|------------------|-------------------------------------|

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|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Official Symbol</b> | CD47                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Synonyms</b>        | CD47; CD47 molecule; CD47 antigen (Rh related antigen, integrin associated signal transducer) , MER6; leukocyte surface antigen CD47; antigen identified by monoclonal 1D8; antigenic surface determinant protein OA3; CD47 glycoprotein; IAP; integrin associated protein; OA3; Rh related antigen; Rh-related antigen; integrin-associated protein; integrin-associated signal transducer; CD47 antigen (Rh-related antigen, integrin-associated signal transducer); MER6; |
| <b>Gene ID</b>         | 961                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>mRNA Refseq</b>     | NM_001777                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Protein Refseq</b>  | NP_942088                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>MIM</b>             | 601028                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>UniProt ID</b>      | Q08722                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

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