

Recombinant Human CD72 Protein, hFc-tagged, Alexa Fluor 555 conjugated

Cat. No. CD72-270HAF555 **Lot. No.** (See product label)

SPECIFICATION

Product Overview Alexa Fluor 555 conjugated recombinant human CD72 (Arg117-Asp359) protein was fused to human IgG1 Fc tag at C-terminus and expressed in human 293 cells (HEK293).

Species Human

Source HEK293

ProteinLength Arg117-Asp359

Description B-cell differentiation antigen CD72 is also known as Lyb-2. CD72 contains one C-type lectin domain. CD72 is a protein active in the immune system of animals. CD72 consists of two identical halves, each of about 39-43 kDa, and is a C-type lectin. Its primarily locus of expression is B-cells, where it appears to mediate aspects of B-cell - T-cell interaction. CD72 plays a role in B-cell proliferation and differentiation. CD72 is a ligand for CD5.

Form Lyophilized

Molecular Mass The protein has a calculated MW of 54.0 kDa. The protein migrates as 60-66 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

N-terminal Sequence Analysis Arg 117

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|-----------------------|---|
| Endotoxin | < 1.0 EU/ µg by the LAL method. |
| Purity | > 95 % as determined by SDS-PAGE |
| Characteristic | <p>Disulfide-linked homodimer</p> <p>Labeled with Alexa Fluor 555 via amines</p> <p>With an excitation and emission maximum of 555/565 nm, Alexa Fluor 555 can be efficiently excited using a 543 nm He-Ne laser line and detected under standard TRITC/Cy3 filters.</p> |
| Storage | <p>For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower.</p> <p>Please avoid repeated freeze-thaw cycles.</p> <p>This product is stable after storage at:</p> <p>-20 to -70 centigrade for 12 months in lyophilized state;</p> <p>-70 centigrade for 3 months under sterile conditions after reconstitution.</p> |
| Storage Buffer | Lyophilized from 0.22 µm filtered solution in 50 mM Tris, 100 mM Glycine, pH7.5, 10% trehalose. |
| Reconstitution | It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 µg/µL. Centrifuge the vial at 4 centigrade before opening to recover the entire contents. |
| Conjugation | Alexa Fluor 555 |

GENE INFORMATION

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|------------------------|------|
| Gene Name | CD72 |
| Official Symbol | CD72 |

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|-----------------------|--|
| Synonyms | CD72; CD72 molecule; CD72 antigen; B-cell differentiation antigen CD72; CD72b; LYB2; IyB-2 |
| Gene ID | 971 |
| mRNA Refseq | NM_001782 |
| Protein Refseq | NP_001773 |
| MIM | 107272 |
| UniProt ID | P21854 |

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