

## Recombinant Human TNFSF13B, FLAG-tagged

**Cat. No.** TNFSF13B-26301TH    **Lot. No.** (See product label)

### SPECIFICATION

|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>    | Recombinant fragment Human BAFF with an N terminal DDDDK tag; MWt 23 kDa .                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Species</b>             | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Source</b>              | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>ProteinLength</b>       | 152 amino acids                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Description</b>         | The protein encoded by this gene is a cytokine that belongs to the tumor necrosis factor (TNF) ligand family. This cytokine is a ligand for receptors TNFRSF13B/TACI, TNFRSF17/BCMA, and TNFRSF13C/BAFFR. This cytokine is expressed in B cell lineage cells, and acts as a potent B cell activator. It has been also shown to play an important role in the proliferation and differentiation of B cells. Alternatively spliced transcript variants encoding distinct isoforms have been identified. |
| <b>Conjugation</b>         | FLAG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Molecular Weight</b>    | 23.000kDa inclusive of tags                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Tissue specificity</b>  | Abundantly expressed in peripheral blood Leukocytes and is specifically expressed in monocytes and macrophages. Also found in the spleen, lymph node, bone marrow, T-cells and dendritic cells. A lower expression seen in placenta, heart, lung, fetal liver,                                                                                                                                                                                                                                        |
| <b>Biological activity</b> | Binds to Human and Mouse BAFFR, TACI and BCMA. Relative binding affinity (EC50) for BAFFR (Human): ~3ng/ml.                                                                                                                                                                                                                                                                                                                                                                                           |

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|------------------------------|-----------------------------------------------------------------------------------------------|
| <b>Form</b>                  | Lyophilised: Reconstitute with 100µl sterile water to give a final concentration of 0.1mg/ml. |
| <b>Purity</b>                | >95% by SDS-PAGE                                                                              |
| <b>Storage buffer</b>        | Preservative: None<br>Constituents: PBS                                                       |
| <b>Storage</b>               | Store at -20°C, Stable for 6 months at -20°C                                                  |
| <b>Sequence Similarities</b> | Belongs to the tumor necrosis factor family.                                                  |

## GENE INFORMATION

|                        |                                                                                                                                                                          |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | TNFSF13B tumor necrosis factor (ligand) superfamily, member 13b [ Homo sapiens ]                                                                                         |
| <b>Official Symbol</b> | TNFSF13B                                                                                                                                                                 |
| <b>Synonyms</b>        | TNFSF13B; tumor necrosis factor (ligand) superfamily, member 13b; TNFSF20; tumor necrosis factor ligand superfamily member 13B; BAFF; BLYS; CD257; TALL 1; TALL1; THANK; |
| <b>Gene ID</b>         | 10673                                                                                                                                                                    |
| <b>mRNA Refseq</b>     | NM_001145645                                                                                                                                                             |
| <b>Protein Refseq</b>  | NP_001139117                                                                                                                                                             |
| <b>MIM</b>             | 603969                                                                                                                                                                   |
| <b>Uniprot ID</b>      | Q9Y275                                                                                                                                                                   |

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| <b>Chromosome Location</b> | 13q32-q34                                                                                                                                                                                                                                                                                                                          |
| <b>Pathway</b>             | Cytokine-cytokine receptor interaction, organism-specific biosystem; Cytokine-cytokine receptor interaction, conserved biosystem; Intestinal immune network for IgA production, organism-specific biosystem; Intestinal immune network for IgA production, conserved biosystem; Rheumatoid arthritis, organism-specific biosystem; |
| <b>Function</b>            | cytokine activity; protein binding; receptor binding; tumor necrosis factor receptor binding;                                                                                                                                                                                                                                      |

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