

For Research Use Only

Recombinant Human 4-1BB Ligand/TNFSF9 protein (hFc Tag)



Catalog Number: Eg0079

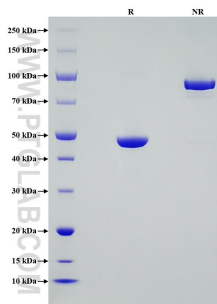
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| Basic Information | Species: Human EC50: 6-24 ng/mL | Purity: >95 %, SDS-PAGE | Tag: hFc Tag |
| Technical Specifications | Purity: >95 %, SDS-PAGE Endotoxin Level: <0.1 EU/µg protein, LAL method Source: HEK293-derived Human 4-1BB Ligand protein Arg71-Glu254 (Accession# P41273) with a human IgG1 Fc tag at the N-terminus. GeneID: 8744 Accession: P41273 Predicted Molecular Mass: 45.4 kDa SDS-PAGE: 45-50 kDa, reducing (R) conditions Formulation: Lyophilized from 0.22 µm filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization. | | |
| Biological Activity | Immobilized Human 4-1BB (Myc tag, His tag) at 0.5 µg/mL (100 µL/well) can bind Human 4-1BB Ligand (hFc tag) with a linear range of 6-24 ng/mL. | | |
| Storage and Shipping | Storage: It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles. <ul style="list-style-type: none">• Until expiry date, -20°C to -80°C as lyophilized proteins.• 3 months, -20°C to -80°C under sterile conditions after reconstitution. Shipping: The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature. | | |
| Reconstitution | Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water. | | |
| Background | TNFSF9 (Tumor necrosis factor ligand superfamily member 9) is also known as 4-1BBL (4-1BB ligand) or CD137L. TNFSF9 is a type 2 transmembrane glycoprotein receptor that is found on APCs (antigen presenting cells). TNFSF9 is expressed on activated T Lymphocytes. The TNFSF9/4-1BB complex with the help of T-cell receptor signals can trigger the increase in CD28- T cells and inhibit tumor growth. The interaction between 4-1BB and TNFSF9 provides costimulatory signals to T cells, which can be used to cancer immunotherapy. | | |
| References | <ol style="list-style-type: none">1.Jacob Bukczynski. et al. (2003). Eur J Immunol. 33(2): 446-54.2.Adam T C Cheuk. et al. (2004). Cancer Gene Ther. 11(3): 215-26.3.Chao Wang. et al. (2009). Immunol Rev. 229(1): 192-215.4.Dass S Vinay. et al. (2012). Mol Cancer Ther. 11(5): 1062-1070.5.Cariad Chester. et al. (2018). Blood. 131(1): 49-57. | | |
| Synonyms | 4-1BB Ligand/TNFSF9, TNFSF9, 4 1BB L, 4 1BB ligand, 4 1BBL | | |

For technical support and original validation data for this product please contact

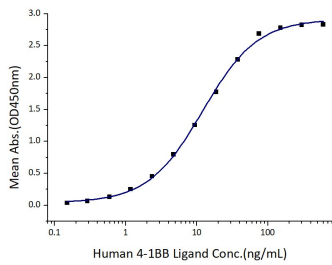
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Selected Validation Data



Purity of Recombinant Human 4-1BB Ligand was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) and non-reducing (NR) conditions and stained using Coomassie blue.



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