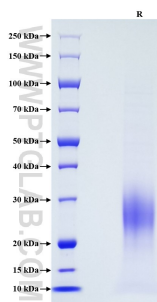


Recombinant Human TREM2 protein (His Tag)

Catalog Number: Eg0747

Basic Information	Species: Human	Purity: >90 %, SDS-PAGE	Tag: His Tag
Technical Specifications	<p>Purity: >90 %, SDS-PAGE</p> <p>Endotoxin Level: <0.1 EU/ µg protein, LAL method</p> <p>Source: HEK293-derived Human TREM2 protein His19-Lys174 (Accession# AAH32362.1) with a His tag at the C-terminus.</p> <p>GeneID: 54209</p> <p>Accession: AAH32362.1</p> <p>Predicted Molecular Mass: 18.2 kDa</p> <p>SDS-PAGE: 22-32 kDa, reducing (R) conditions</p> <p>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.</p>		
Biological Activity	Not tested		
Storage and Shipping	<p>Storage: It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.</p> <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. <p>Shipping: The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.</p>		
Reconstitution	Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.		
Background	<p>TREM2 (triggering receptor expressed on myeloid cells 2) is a cell surface receptor belongs to TREM family that is expressed on osteoclast, dendritic cells, macrophages, nature killers, neutrophils and microglia. TREM2 is localized predominantly in the Golgi complex, but also shuttles to and from the cell surface in endocytic and exocytic vesicles. It associates with DAP12 to initiate the intracellular signalling cascade via an immunoreceptor tyrosine-based activation motif (ITAM) domain and tyrosine-kinases.</p>		
References	<ol style="list-style-type: none"> 1. Guo, Tianshu. et al. (2022). Front Immunol. 13:963373. 2. Ferri, Evelyn. et al. (2021). Frontiers in molecular biosciences. 7:627931. 3. Diaz-Lucena, Daniela. et al. (2021). Acta Neuropathol. 141(6):841-859. 4. Liu, Wenwu. et al. (2023). Clin Chim Acta. 548:117499. 5. Piccio, Laura. et al. (2016). Acta Neuropathol. 131(6):925-33. 6. Hu, Nan. et al. (2014). J Alzheimers Dis. 38(3):497-501. 		
Synonyms	TREM2, TREM 2, TREM-2, Trem2a, Trem2b		

Selected Validation Data



Purity of Recombinant Human TREM2 was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) conditions and stained using Coomassie blue.

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

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