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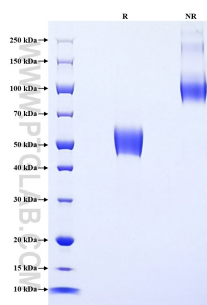
Recombinant Human TMIGD2/CD28H protein (rFc Tag)



Catalog Number: Eg2264

Basic Information	Species: Human	Purity: >90 %, SDS-PAGE	Tag: rFc 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 TMIGD2 protein Leu23-Gly150 (Accession# Q96BF3-1) with a rabbit IgG Fc tag at the C-terminus.</p> <p>GeneID: 126259</p> <p>Accession: Q96BF3-1</p> <p>Predicted Molecular Mass: 40.3 kDa</p> <p>SDS-PAGE: 46-60 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>Transmembrane and immunoglobulin domain-containing protein 2 (TMIGD2, also known as CD28H and IGPR1), plays a role in cell-cell interaction, migration, and angiogenesis. Through interaction with HHLA2, it costimulates T-cells in the context of TCR-mediated activation and enhances T-cell proliferation and cytokine production via an AKT-dependent signaling cascade. TMIGD2 has been associated with several diseases, particularly in the context of cancer. It is aberrantly expressed by human AML cells and can be used to identify and enrich functional LSCs. The predicted molecular weight of the TMIGD2 protein is 31 kDa. The higher molecular weight of TMIGD2 could be associated with its potential glycosylation at its extracellular region.</p>		
References	<ol style="list-style-type: none">1. Nader Rahimi, et al.(2012) Mol Biol Cell. 23(9):1646-56.2. Yuwen Zhu, et al.(2013) Nat Commun. 4:2043.3. Hao Wang, et al.(2024) Nat Commun. 15(1):114. Nader Rahimi, et al. (2012) Mol Biol Cell. 23(9):1646-56		
Synonyms	TMIGD2/CD28, TMIGD2/CD28H, CD28 homolog, CD28H, IGPR1		

Selected Validation Data



Purity of Recombinant Human TMIGD2 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.

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

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