

Product datasheet for TP728134L

TMIGD2 (23-150, hlgG-Tag) Human Recombinant Protein

Product data:

Product Type: Recombinant Proteins Description: Recombinant human TMIGD2/CD28H protein Species: Human **Expression Host: HEK293** LSVQQGPNLL QVRQGSQATL VCQVDQATAW ERLRVKWTKD GAILCQPYIT NGSLSLGVCG Expression cDNA Clone PQGRLSWQAP SHLTLQLDPV SLNHSGAYVC WAAVEIPELE EAEGNITRLF VDPDDPTQNR NRIASFPG or AA Sequence: Tag: hlgG-Tag Predicted MW: 40.1kDa (361aa) **Concentration:** 1mg/ml (determined by Absorbance at 280nm) **Purity:** 95% by SDS - PAGE **Buffer:** Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol **Bioactivity:** Measured by its binding ability in a functional ELISA with Human HHLA2. The ED50 range \leq 200 ng/ml. Endotoxin: <1 EU per 1ug of protein (determined by LAL method) SDS-PAGE, Bioactivity **Applications:** Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -Storage: 80C. Avoid repeated freezing and thawing cycles. RefSeq: NP 653216.2



This product is to be used for laboratory only. Not for diagnostic or therapeutic use. ©2024 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US

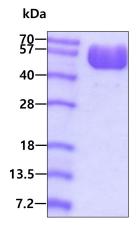
OriGene Technologies, Inc.

9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn

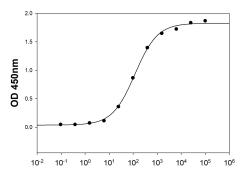
STATES TEAL CONTRACTOR STATES CONTRACT IN THE CONTRACT INTERCE INTERCE

Summary:TMIGD2, also known as IGPR-1, is a member of the Immunoglobulin family. This protein
shares approximately 10% amino acid sequence identity with CD28, CTLA4, ICOS, and PD1.
The immunoglobulin domain of TMIGD2 was predicted to be Ig V fold and was found to be
highly similar to the Ig domain of myelin-associated glycoprotein. It plays a role in cell-cell
interaction, cell migration, and angiogenesis. Through interaction with HHLA2, co-stimulates
T-cells in the context of TCR-mediated activation. Enhances T-cell proliferation and cytokine
production via an AKT-dependent signaling cascade. It is constitutively expressed on naive T
and NK cells. Similar to the interaction of B7 with CD28, the interaction of TMIGD2 with B7H7
activates the Aktdependent signaling cascade and promotes the proliferation and activation
of newly generated peripheral effector and memory T cells. Also, it interacts with multiple
cytoskeletal proteins. Recombinant human TMIGD2, fused to hIgG-tag at C-terminus, was
expressed in HEK293 cell and purified by using conventional chromatography techniques.

Product images:







This product is to be used for laboratory only. Not for diagnostic or therapeutic use. ©2024 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US