

Product datasheet for TP728134

OriGene Technologies, Inc.

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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

Expression cDNA Clone LSVQQGPNLL QVRQGSQATL VCQVDQATAW ERLRVKWTKD GAILCQPYIT NGSLSLGVCG

or AA Sequence: PQGRLSWQAP SHLTLQLDPV SLNHSGAYVC WAAVEIPELE EAEGNITRLF VDPDDPTQNR NRIASFPG

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 ≤

200 ng/ml.

Endotoxin: <1 EU per 1ug of protein (determined by LAL method)

Applications: SDS-PAGE, Bioactivity

Storage: Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -

80C. Avoid repeated freezing and thawing cycles.

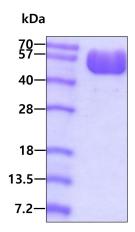
RefSeq: NP 653216.2



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:



Human TMIGD2 (ng/ml)

