

Datasheet for ABIN7596157

**TMIGD2 Protein (AA 23-150) (Fc Tag)**[Go to Product page](#)

## Overview

Quantity:	500 µg
Target:	TMIGD2
Protein Characteristics:	AA 23-150
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This TMIGD2 protein is labelled with Fc Tag.
Application:	SDS-PAGE (SDS), Activity Assay (AcA)

## Product Details

Sequence:	LSVQQGPNLL QVRQGSQATL VCQVDQATAW ERLRVKWKTD GAILCQPYIT NGSLSLGVCG PQGRLSWQAP SHLTQLQDPV SLNHSGAYVC WAAVEIPELE EAEGNITRLF VDPDDPTQNR NRIASFPG
Purity:	95% by SDS - PAGE
Endotoxin Level:	< 1 EU per 1ug of protein (determined by LAL method)
Biological Activity Comment:	Measured by its binding ability in a functional ELISA with Human HHLA2. The ED50 range ≤ 200 ng/ml.

## Target Details

Target:	TMIGD2
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## Target Details

Alternative Name:	TMIGD2/CD28H ( <a href="#">TMIGD2 Products</a> )
Background:	TMIGD2, also known as IGPR-1, is a member of the Immunoglobulin family. This protein shares approximately 10 % amino acid sequence identity with CD28, CTLA-4, ICOS, and PD-1. 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 B7-H7 activates the Akt-dependent 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 hlgG-tag at C-terminus, was expressed in HEK293 cell and purified by using conventional chromatography techniques.
Molecular Weight:	40.1kDa (361aa)
NCBI Accession:	<a href="#">NP_653216</a>

## Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.
Restrictions:	For Research Use only

## Handling

Format:	Liquid
Concentration:	1 mg/mL
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	Can be stored at +2°C to +8°C for 1 week. For long term storage, aliquot and store at -20°C to -80°C. Avoid repeated freezing and thawing cycles.