

TMIGD2 Blocking Peptide (Center)
Synthetic peptide
Catalog # BP20167c**Specification**

TMIGD2 Blocking Peptide (Center) - Product Information

Primary Accession [O96BF3](#)
Other Accession [NP_653216.2](#)

TMIGD2 Blocking Peptide (Center) - Additional Information

Gene ID 126259

Other Names

Transmembrane and immunoglobulin domain-containing protein 2, CD28 homolog,
Immunoglobulin and proline-rich receptor 1, IGPR-1, TMIGD2, CD28H, IGPR1

Target/Specificity

The synthetic peptide sequence is selected from aa 134-147 of HUMAN TMIGD2

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

TMIGD2 Blocking Peptide (Center) - Protein Information

Name TMIGD2

Synonyms CD28H, IGPR1

Function

Plays a role in cell-cell interaction, cell migration, and angiogenesis. Through interaction with HHLA2, costimulates T-cells in the context of TCR-mediated activation. Enhances T-cell proliferation and cytokine production via an AKT-dependent signaling cascade.

Cellular Location

Cell membrane; Single-pass type I membrane protein

Tissue Location

Widely expressed, mainly by epithelial and endothelial cells, including bronchial epithelial cells of lung, breast glandular and lobular epithelia cells, urothelium of the bladder, skin epidermis, epithelium of gastrointestinal, rectum, endometrial glands of the uterus, ureter, fallopian tube

epithelium, colonic epithelium, small bowel epithelium, stomach epithelium, including both chief and parietal cells, trophoblastic epithelium of placenta, and pancreatic acinar cells (at protein level). Consistently expressed in veins and arteries (at protein level). Not detected in thyroid, cerebellum, cerebral cortex and thymus (at protein level). Expressed in lymphoid organs, with highest levels in thymus, spleen, peripheral blood lymphocytes and liver. In the thymus, expressed in CD4+ and CD8+ single- and double-positive cells, but not in immature CD4- and CD8- double-negative cells (at protein level). In peripheral blood mononuclear cells, highly expressed on CD56+ or CD16+ natural killer cells and CD3+ T-cells(at protein level). Not detected on B-cells(at protein level). Expressed in tonsils (at protein level)

TMIGD2 Blocking Peptide (Center) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

TMIGD2 Blocking Peptide (Center) - Images

TMIGD2 Blocking Peptide (Center) - Background

The function of this protein is unknown.

TMIGD2 Blocking Peptide (Center) - References

Gerhard, D.S., et al. Genome Res. 14 (10B), 2121-2127 (2004) :