

**TMIGD1 Antibody**  
**Catalog # ASC11739****Specification**

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**TMIGD1 Antibody - Product Information**

Application	WB, IHC, IF
Primary Accession	<a href="#">Q6UXZ0</a>
Other Accession	<a href="#">NP_996663</a> , <a href="#">45592949</a>
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	Predicted: 29 kDa

Application Notes	Observed: 24 kDa KDa TMIGD1 antibody can be used for detection of TMIGD1 by Western blot at 1 - 2 µg/ml. Antibody can also be used for Immunohistochemistry starting at 5 µg/mL. For immunofluorescence start at 20 µg/mL.
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**TMIGD1 Antibody - Additional Information**Gene ID **388364****Target/Specificity**

TMIGD1; TMIGD1 antibody is human, mouse and rat reactive. At least two isoforms of TMIGD1 are known to exist; this antibody will detect both isoforms.

**Reconstitution & Storage**

TMIGD1 antibody can be stored at 4°C for three months and -20°C, stable for up to one year.

**Precautions**

TMIGD1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**TMIGD1 Antibody - Protein Information**Name TMIGD1 ([HGNC:32431](#))**Function**

May control cell-cell adhesion, cell migration and proliferation, cell morphology, and protects renal epithelial cells from oxidative cell injury to promote cell survival.

**Cellular Location**

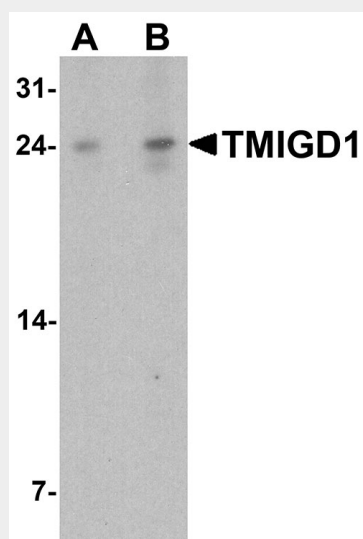
Cell membrane; Single-pass type I membrane protein. Cytoplasm

**TMIGD1 Antibody - Protocols**

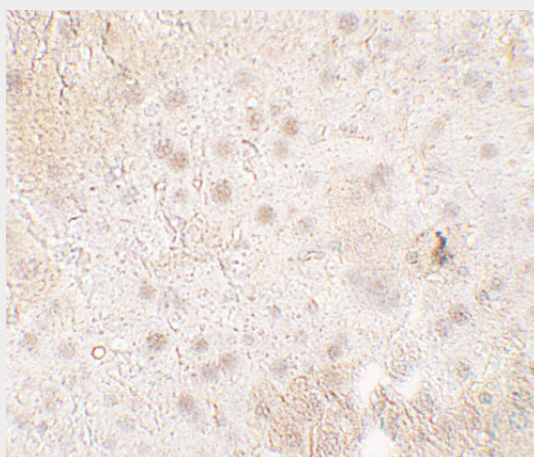
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

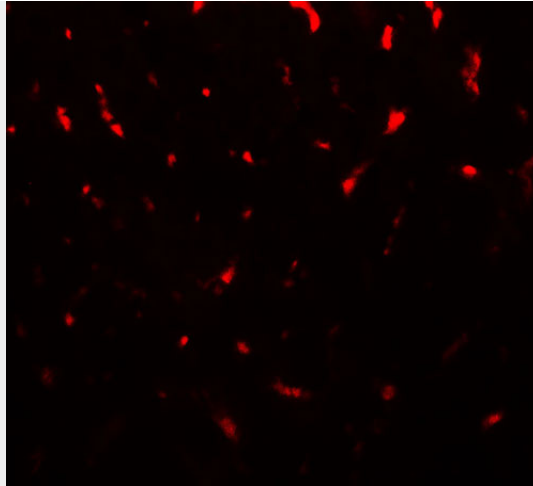
#### TMIGD1 Antibody - Images



Western blot analysis of TMIGD1 in rat liver tissue lysate with TMIGD1 antibody at (A) 1 and (B) 2  $\mu\text{g/ml}$ .



Immunohistochemistry of TMIGD1 in mouse liver tissue with TMIGD1 antibody at 5  $\mu\text{g/mL}$ .



Immunofluorescence of TMIGD1 in mouse liver tissue with TMIGD1 antibody at 20 µg/mL.

### **TMIGD1 Antibody - Background**

TMIGD1 (transmembrane and immunoglobulin domain containing 1) is a 262 amino acid single-pass membrane protein that contains two Ig-like C2-type (immunoglobulin-like) domains (1,2). It is a nonsecreted, glycosylated protein located in the cytoplasm and cell membrane (1). TMIGD1 might be a possible cell-differentiation marker in the intestine, whose expression is lost during cellular transformation and promote progression of tumorigenesis in the intestinal epithelium (2-4). TMIGD1 has also been postulated to play a role in cell adhesion (2).

### **TMIGD1 Antibody - References**

Clark HF, Gurney AL, Abaya E, et al. The secreted protein discovery initiative (SPDI), a large-scale effort to identify novel human secreted and transmembrane proteins: a bioinformatics assessment. *Genome Res.* 2003; 13:2265-70.

Fujimoto K, Beauchamp RD, Whitehead RH. Identification and isolation of candidate human colonic clonogenic cells based on cell surface integrin expression. *Gastroenterology* 2002; 123:1941-8.

Yan J, Jiang J, Lim CA, et al. Blimp-1 regulates cell growth through repression of p53 transcription. *Proc. Natl. Acad. Sci. USA* 2007; 104:1841-6.

Cattaneo E, Laczko E, Buffoli F, et al. Preinvasive colorectal lesion transcriptomes correlate with endoscopic morphology (polypoid vs. nonpolypoid). *EMBO Mol Med.* 2011; 3:334-47.