

**Goat Anti-TM4SF3 / TSPAN8 Antibody**  
Peptide-affinity purified goat antibody  
Catalog # AF2094a

### Specification

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#### Goat Anti-TM4SF3 / TSPAN8 Antibody - Product Information

Application	WB
Primary Accession	<a href="#">P19075</a>
Other Accession	<a href="#">NP_004607</a> , <a href="#">7103</a>
Reactivity	Human
Host	Goat
Clonality	Polyclonal
Concentration	100ug/200ul
Isotype	IgG
Calculated MW	26044

#### Goat Anti-TM4SF3 / TSPAN8 Antibody - Additional Information

**Gene ID** 7103

#### Other Names

Tetraspanin-8, Tspan-8, Transmembrane 4 superfamily member 3, Tumor-associated antigen CO-029, TSPAN8, TM4SF3

#### Format

0.5 mg IgG/ml in Tris saline (20mM Tris pH7.3, 150mM NaCl), 0.02% sodium azide, with 0.5% bovine serum albumin

#### Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

#### Precautions

Goat Anti-TM4SF3 / TSPAN8 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

#### Goat Anti-TM4SF3 / TSPAN8 Antibody - Protein Information

**Name** TSPAN8

**Synonyms** TM4SF3

#### Function

Structural component of specialized membrane microdomains known as tetraspanin-enriched microdomains (TERMs), which act as platforms for receptor clustering and signaling (PubMed:[27180357](http://www.uniprot.org/citations/27180357), PubMed:[36078095](http://www.uniprot.org/citations/36078095)). Participates

thereby in diverse biological functions such as cell signal transduction, migration and protein trafficking (PubMed:<a href="http://www.uniprot.org/citations/25761241" target="\_blank">25761241</a>). Promotes ADAM17-mediated TNF-alpha processing through recruitment of ADAM17 to tetraspanin-enriched micro-domains (TEMs) (PubMed:<a href="http://www.uniprot.org/citations/36078095" target="\_blank">36078095</a>). Forms a complex with RICTOR and integrin alpha3/ITGA3 to mediate mTORC2 activation and AKT1 phosphorylation leading to cell migration (PubMed:<a href="http://www.uniprot.org/citations/25761241" target="\_blank">25761241</a>). Reduces apoptosis and autophagy induced by high glucose levels through forming a complex with mTOR and RICTOR (PubMed:<a href="http://www.uniprot.org/citations/35904232" target="\_blank">35904232</a>). Contributes to the maintenance of intestinal epithelial barrier and plays a role in the regulation of intestine inflammation by switching interferon gamma receptor 1/IFNGR1 from clathrin-dependent to lipid raft-dependent endocytosis route to limit STAT1 activation magnitude and duration (PubMed:<a href="http://www.uniprot.org/citations/37204469" target="\_blank">37204469</a>). Acts as a modulator of the endothelin axis by associating with endothelin converting enzyme ECE1 and regulating its activity of conversion of the endothelin-1 precursor to endothelin (PubMed:<a href="http://www.uniprot.org/citations/37835445" target="\_blank">37835445</a>).

#### Cellular Location

Cell membrane; Multi-pass membrane protein

#### Tissue Location

Gastric, colon, rectal, and pancreatic carcinomas.

### Goat Anti-TM4SF3 / TSPAN8 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](#)

### Goat Anti-TM4SF3 / TSPAN8 Antibody - Images



AF2094a (0.01 µg/ml) staining of Human Colon lysate (35 µg protein in RIPA buffer). Primary

incubation was 1 hour. Detected by chemiluminescence.

### **Goat Anti-TM4SF3 / TSPAN8 Antibody - Background**

The protein encoded by this gene is a member of the transmembrane 4 superfamily, also known as the tetraspanin family. Most of these members are cell-surface proteins that are characterized by the presence of four hydrophobic domains. The proteins mediate signal transduction events that play a role in the regulation of cell development, activation, growth and motility. This encoded protein is a cell surface glycoprotein that is known to complex with integrins. This gene is expressed in different carcinomas. The use of alternate polyadenylation sites has been found for this gene.

### **Goat Anti-TM4SF3 / TSPAN8 Antibody - References**

Obesity and diabetes genetic variants associated with gestational weight gain. Stuebe AM, et al. *Am J Obstet Gynecol*, 2010 Sep. PMID 20816152.  
Evaluating the discriminative power of multi-trait genetic risk scores for type 2 diabetes in a northern Swedish population. Fontaine-Bisson B, et al. *Diabetologia*, 2010 Oct. PMID 20571754.  
Type 2 diabetes risk alleles near ADCY5, CDKAL1 and HHEX-IDE are associated with reduced birthweight. Andersson EA, et al. *Diabetologia*, 2010 Sep. PMID 20490451.  
Personalized smoking cessation: interactions between nicotine dose, dependence and quit-success genotype score. Rose JE, et al. *Mol Med*, 2010 Jul-Aug. PMID 20379614.  
Genome-wide association study of CNVs in 16,000 cases of eight common diseases and 3,000 shared controls. Wellcome Trust Case Control Consortium, et al. *Nature*, 2010 Apr 1. PMID 20360734.