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Goat Anti-TM4SF3 / TSPAN8 Antibody

Peptide-affinity purified goat antibody

Catalog # AF2094a

Specification

Goat Anti-TM4SF3 / TSPAN8 Antibody - Product Information

Application	**WB, E**
Primary Accession	P19075
Other Accession	NP_004607, 7103
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

Dilution
WB~~1:1000
E~~N/A

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, PubMed:36078095). Participates thereby in diverse biological functions such as cell signal transduction, migration and protein trafficking (PubMed:25761241). Promotes ADAM17-mediated TNF-alpha processing through recruitment of ADAM17 to tetraspanin-enriched micro-domains (TEMs) (PubMed:36078095). Forms a complex with RICTOR and integrin alpha3/ITGA3 to mediate mTORC2 activation and AKT1 phosphorylation leading to cell migration (PubMed:25761241). Reduces apoptosis and autophagy induced by high glucose levels through forming a complex with mTOR and RICTOR (PubMed:35904232). 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:37204469). 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:37835445).

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 Cytomety
- Cell Culture

Goat Anti-TM4SF3 / TSPAN8 Antibody - Images

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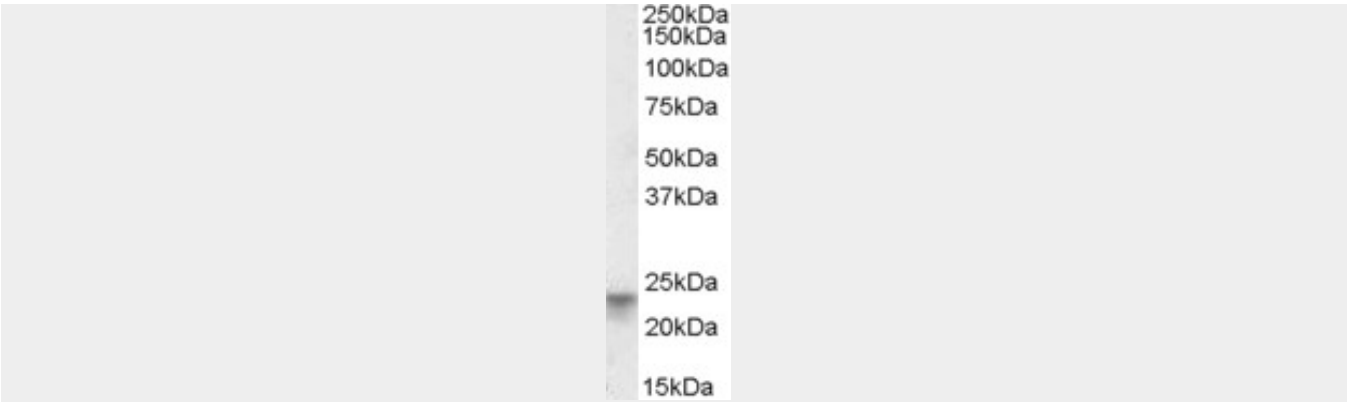

AF2094a (0.01 µg/ml) staining of Human Colon lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

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.