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Anti-Tetraspanin 8 Antibody
Rabbit polyclonal antibody to Tetraspanin 8
Catalog # AP59720

Specification

Anti-Tetraspanin 8 Antibody - Product Information

Application	**WB**
Primary Accession	P19075
Reactivity	**Human, Mouse, Rat**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**26044**

Anti-Tetraspanin 8 Antibody - Additional Information

Gene ID 7103

Other Names
TM4SF3; Tetraspanin-8; Tspan-8; Transmembrane 4 superfamily member 3; Tumor-associated antigen CO-029

Target/Specificity
Recognizes endogenous levels of Tetraspanin 8 protein.

Dilution
WB~~WB (1/500 - 1/1000), IH (1/100 - 1/200)

Format
Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.

Storage
Store at -20 °C.Stable for 12 months from date of receipt

Anti-Tetraspanin 8 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

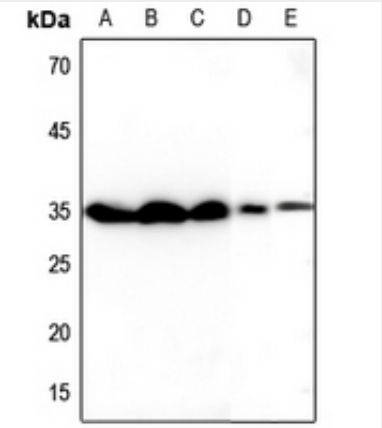
Tissue Location
Gastric, colon, rectal, and pancreatic carcinomas.

Anti-Tetraspanin 8 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

Anti-Tetraspanin 8 Antibody - Images



Western blot analysis of Tetraspanin 8 expression in HEK293T (A), Hela (B), HGC27 (C), mouse testis (D), rat testis (E) whole cell lysates.

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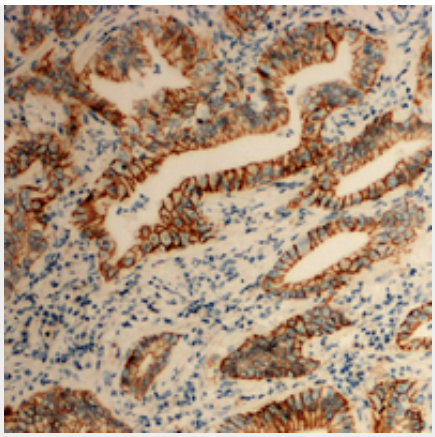

Immunohistochemical analysis of Tetraspanin 8 staining in human colon cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

Anti-Tetraspanin 8 Antibody - Background

KLH-conjugated synthetic peptide encompassing a sequence within the center region of human Tetraspanin 8. The exact sequence is proprietary.