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Rabbit Polyclonal TM6SF2 Antibody

Catalog Number: TM6SF2-201AP

Lot Number:

General Product Information

Product	TM6SF2 Antibody
Description	Rabbit Polyclonal Transmembrane 6 superfamily member 2 Antibody
Accession #	Uniprot: Q9BZW4 GenBank: NP_001001524
Verified Applications	ELISA, IP, WB
Species Cross Reactivity	Human, Mouse, Rat
Immunogen	Synthetic peptide taken within amino acid region 220-270 on mouse TM6SF2 protein.
Alternative Nomenclature	KIAA1926 Antibody, Anti-Lpr4 antibody, Anti-Transmembrane 6 Superfamily Member 2

Physical Properties

Quantity	100 µg
Volume	200 µl
Form	Affinity Purified
Immunoglobulin & Concentration	0.68 mg/ml IgG in antibody stabilization buffer
Storage	Store at -20°C for long term storage.

Application Protocol

ELISA	1:4,000
Immunoprecipitation	1:150
Western Blot	1:500

Related Products

BIOTIN-Conjugated	TM6SF2-BIOTIN
FITC-Conjugated	TM6SF2-FITC
Antigenic Blocking Peptide	P-TM6SF2
Western Blot Positive Control	PC-TM6SF2
TM6SF1 Antibody	TM6SF1-101AP
TM6SF2 Antibody	TM6SF2-212AP

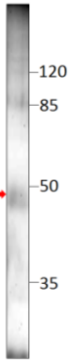
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Application Verification:



WB of TM6SF2-201AP with rat liver.
1:500 Antibody dilution in DiluOBuffer.
Apparent MW of TM6SF2 native protein is 48/50 kDa.

Dilutions are for reference only. Applications not listed above are not necessarily precluded from working with this antibody. Investigators intending to use an application that has not been verified can request a complimentary sample.

Overview:

Transmembrane 6 superfamily member 2 (TM6SF2) is a 377 amino acid multi-pass membrane protein that belongs to the TM6SF family which is intricately involved in chemokine signal transduction pathways. TM6SF2, a gene expressed predominantly in liver and intestine comprises of 7-10 predicted transmembrane domains. TM6SF2 siRNA inhibition is associated with reduced secretion of TRLs and increased cellular TG concentration and lipid droplet content, whereas TM6SF2 overexpression reduced liver cell steatosis concluding that TM6SF2 is a regulator of liver fat metabolism with opposing effects on the secretion of TRLs and hepatic lipid droplet content (1). Protein subcellular localization studies with confocal microscopy demonstrated that TM6SF2 is localized in the endoplasmic reticulum and the ER-Golgi intermediate compartment of human liver cells (2).

The TM6SF2-selective antibodies were generated against unique peptides characteristics of the particular mouse protein of the TM6SF2 family. These antibodies have been fully characterized for cross reactivity with other cellular proteins. FabGennix has produced antibodies to multiple epitopes on the same protein that will facilitate studies utilizing interspecies cross reactivity. The TM6SF2-selective antibodies are affinity purified on an immobilized antigen based affinity matrix. The isolated antibodies were then stabilized in antibody stabilization buffer for long-term storage. Antigenic blocking peptides (P-TM6SF2) and western blot positive controls (PC-TM6SF2) are available. Antibodies can be conjugated to secondary enzymes or fluorophores upon request at nominal costs. For a complete listing of all FabGennix products and services please visit <http://fabgennix.com>.

References:

1. Mahdessian H1, Taxiarchis A1, Popov S1, Silveira A1, Franco-Cereceda A2, Hamsten A1, Eriksson P1, van't Hooft F3. TM6SF2 is a regulator of liver fat metabolism influencing triglyceride secretion and hepatic lipid droplet content. Proc Natl Acad Sci U S A. 2014 Jun 17; Epub 2014 Jun 4.
2. Sanchez-Pulido L1, Ponting CP1. TM6SF2 and MAC30, new enzyme homologs in sterol metabolism and common metabolic disease. Front Genet. 2014 Dec 11; eCollection 2014.

* For users who may require large amounts of the products listed above, please inquire about bulk material discounts.
This Product is for Research Use Only and is NOT intended for use in humans or clinical diagnosis.