

C18orf1 Rabbit pAb

Catalog # AP96301

Product Information

Application	WB
Primary Accession	Q15165
Other Accession	Q15165
Reactivity	Human
Predicted	Rat, Mouse, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	33900
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human C18orf1
Epitope Specificity	6-100/306
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Cell membrane; Single-pass membrane protein (Potential).
SIMILARITY	Belongs to the PMEPA1 family. Contains 1 LDL-receptor class A domain.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	C18orf1 is a 306 amino acid single-pass membrane protein that contains one LDL-receptor class A domain and belongs to the PMEPA1 family. C18orf1 exists as five alternatively spliced isoforms that display selective expression and are encoded by a gene that maps to human chromosome 18, which houses over 300 protein-coding genes and contains nearly 76 million bases. There are a variety of diseases associated with defects in chromosome 18-localized genes, some of which include Trisomy 18 (also known as Edwards syndrome), Niemann-Pick disease, hereditary hemorrhagic telangiectasia, erythropoietic protoporphyria and follicular lymphomas.

Additional Information

Gene ID	753
Other Names	C18orf1; LRAD4_HUMAN; LDLRAD4; low density lipoprotein receptor class A domain containing 4; chromosome 18 open reading frame 1; clone 22
Target/Specificity	Expressed in lymphocytes.
Dilution	WB=1:500-2000
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	LDLRAD4
Synonyms	C18orf1
Function	Functions as a negative regulator of TGF-beta signaling and thereby probably plays a role in cell proliferation, differentiation, apoptosis, motility, extracellular matrix production and immunosuppression. In the canonical TGF-beta pathway, ZFYVE9/SARA recruits the intracellular signal transducer and transcriptional modulators SMAD2 and SMAD3 to the TGF-beta receptor. Phosphorylated by the receptor, SMAD2 and SMAD3 then form a heteromeric complex with SMAD4 that translocates to the nucleus to regulate transcription. Through interaction with SMAD2 and SMAD3, LDLRAD4 may compete with ZFYVE9 and SMAD4 and prevent propagation of the intracellular signal.
Cellular Location	Early endosome membrane; Single-pass membrane protein
Tissue Location	Expressed in lymphocytes.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.