

PPAPDC3 Antibody

Catalog # ASC11029

Product Information

Application	WB, IF, E
Primary Accession	Q8NBV4
Other Accession	EAW87966 , 119608372
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	29448
Concentration (mg/ml)	1 mg/mL
Conjugate	Unconjugated
Application Notes	PPAPDC3 antibody can be used for detection of PPAPDC3 by Western blot at 1 - 2 μ g/mL. For immunofluorescence start at 20 μ g/mL.

Additional Information

Gene ID	84814
Other Names	Probable lipid phosphate phosphatase PPAPDC3, 3.1.3.-, Phosphatidic acid phosphatase type 2 domain-containing protein 3, PPAPDC3, C9orf67
Target/Specificity	PPAPDC3;
Reconstitution & Storage	PPAPDC3 antibody can be stored at 4°C for three months and -20°C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.
Precautions	PPAPDC3 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	PLPP7 (HGNC:28174)
Synonyms	C9orf67, PPAPDC3
Function	Plays a role as negative regulator of myoblast differentiation, in part through effects on MTOR signaling. Has no detectable enzymatic activity (By similarity).
Cellular Location	Nucleus envelope. Endoplasmic reticulum membrane. Membrane; Multi-pass membrane protein. Note=Both the N- and C-terminal are exposed to the cytoplasm/nucleoplasm.

Background

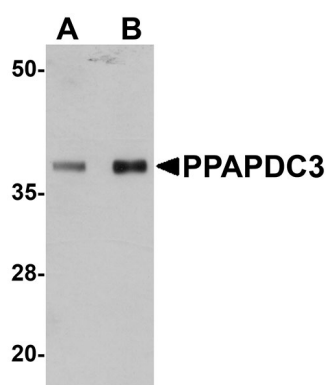
PPAPDC3 Antibody: PPAPDC3, also known as nuclear envelope transmembrane protein 39 (NET39), was initially discovered in an in silico screen for secreted or membrane proteins. It is a member of the PAP2 superfamily of phosphatases and haloperoxidases. PPAPDC3 has recently been shown to act as a negative regulator of myoblast differentiation by diminishing the activity of the mammalian target of rapamycin TOR. PPAPDC3 is highly expressed in cardiac and skeletal muscle and becomes strongly upregulated during cultured myoblast differentiation tissues. Overexpression of PPAPDC3 in myoblasts repressed myogenesis while knockdown by RNA interference promoted differentiation indicating its part in the regulatory mechanism for myogenesis.

References

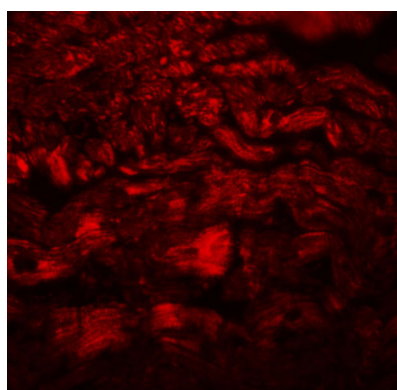
Otsuki T, Ota T, Nishikawa T, et al. Signal sequence and keyword trap in silico for selection of full-length human cDNAs encoding secretion or membrane proteins from oligo-capped cDNA libraries. *DNA Res.*2005; 12:117-26.

Liu GH, Guan T, Datta K, et al. Regulation of myoblast differentiation by the nuclear envelope protein NET39. *Mol. Cell Biol.*2009; 29:5800-12.

Images



Western blot analysis of PPAPDC3 in mouse heart tissue lysate with PPAPDC3 antibody at (A) 1 and (B) 2 µg/mL.



Immunofluorescence of PPAPDC3 in mouse heart tissue with PPAPDC3 antibody at 20 µg/mL.

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