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FRL1 Antibody

Catalog # ASC11576

Product Information

Application	WB, IF, E
Primary Accession	O95466
Other Accession	NP_005883, 33356148
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	121854
Concentration (mg/ml)	1 mg/mL
Conjugate	Unconjugated
Application Notes	FRL1 antibody can be used for detection of FRL1 by Western blot at 1 - 2 g/mL. For immunofluorescence start at 20 g/mL.

Additional Information

Gene ID	752
Other Names	Formin-like protein 1, CLL-associated antigen KW-13, Leukocyte formin, FMNL1, C17orf1, C17orf1B, FMNL
Target/Specificity	FMNL1; FRL1 antibody is human, mouse and rat reactive. Three alternatively spliced transcript variants have been observed
Reconstitution & Storage	FRL1 antibody can be stored at 4℃ for three months and -20℃, 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	FRL1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	FMNL1
Synonyms	C17orf1, C17orf1B, FMNL, FRL1
Function	Plays a role in actin cytoskeleton dynamics and regulation of cell shape (PubMed:21834987).
Cellular Location	Cytoplasm. Cell membrane; Lipid-anchor. Cytoplasmic vesicle, phagosome. Note=Recruited to actin-rich phagosomes during phagocytosis. Translocates to the plasma membrane upon activation by RAC1 (By similarity).

Tissue Location	Expressed in heart, brain, placenta, lung, liver, skeletal muscle, kidney and pancreas

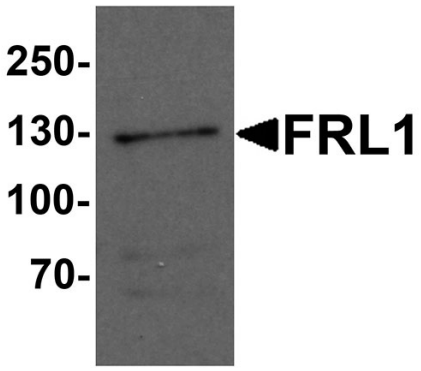
Background

FRL1 Antibody: The Formin-like protein 1 (FRL1) gene encodes a formin-related protein which has been implicated in morphogenesis, cyokinesis, and cell polarity. Formins are a conserved class of proteins expressed in all eukaryotes and have one DAD (diaphanous autoregulatory domain), one FH2 (formin homology 2) domain and one GBD/FH3 (Rho GTPase-binding / formin homology 3) domain. FRL1 is located in the cytoplasm and is highly expressed in the spleen, lymph node and bone marrow cells. FRL1 possibly has a role in the control of cell motility, survival of macrophages and cytoskeletal organization.

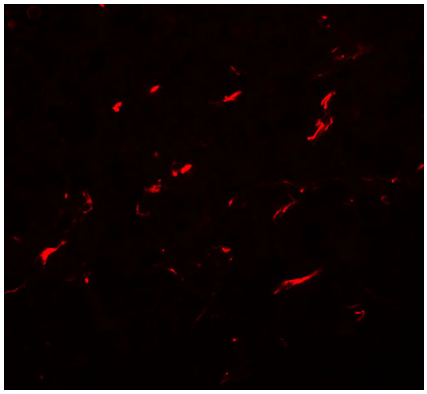
References

Katoh M and Katoh M. Identification and characterization of human FMNL1, FMNL2 and FMNL3 genes in silico. Int. J. Oncol. 2003; 22:1161-8.
Yayoshi-Yamamoto S, Taniuchi I and Watanabe T. FRL, a novel formin-related protein, binds to Rac and regulates cell motility and survival of macrophages. Mol. Cell. Biol. 2000; 20: 6872-81.
Favaro PM, Traina F, Vassallo J, et al. High expression of FMNL1 protein in T non-Hodgkin's lymphomas. Leuk. Res. 2006; 30:735-8.
Gomez TS, Kumar K, Medeiros RB, et al. Formins regulate the actin-related protein 2/3 complex-independent polarization of the centrosome to the immunological synapse. Immunity 2007; 26:177-90.

Images



Western blot analysis of FRL1 in EL4 cell lysate with FRL1 antibody at 1 µg/mL.



Immunofluorescence of FRL1 in EL4 cells with FRL1 antibody at 20 µg/mL.

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