

FRL1 Antibody
Catalog # ASC11576**Specification****FRL1 Antibody - Product Information**

Application	WB, IF
Primary Accession	O95466
Other Accession	NP_005883 , 33356148
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	121 kDa KDa
Application Notes	FRL1 antibody can be used for detection of FRL1 by Western blot at 1 - 2 µg/mL. For immunofluorescence start at 20 µg/mL.

FRL1 Antibody - Additional Information

Gene ID 752

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°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

FRL1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

FRL1 Antibody - Protein Information

Name FMNL1

Synonyms C17orf1, C17orf1B, FMNL, FRL1

Function

May play a role in the control of cell motility and survival of macrophages (By similarity). Plays a role in the regulation of cell morphology and cytoskeletal organization. Required in the cortical actin filament dynamics and cell shape.

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

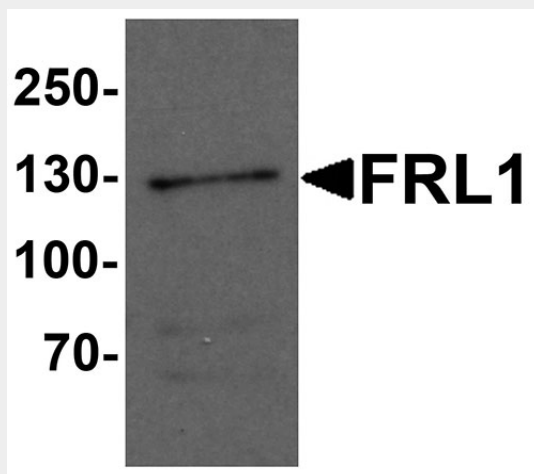
Expressed in heart, brain, placenta, lung, liver, skeletal muscle, kidney and pancreas

FRL1 Antibody - Protocols

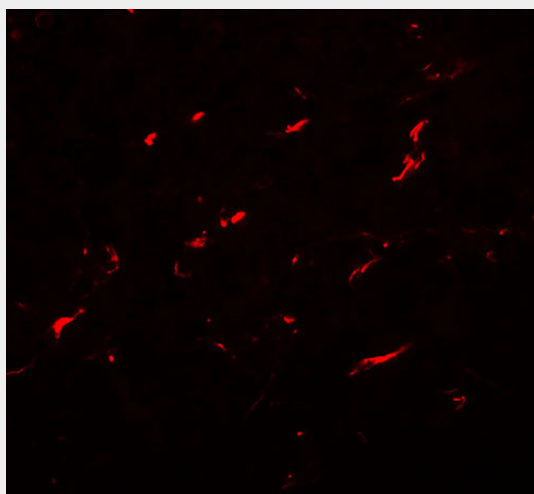
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

FRL1 Antibody - Images



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



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

FRL1 Antibody - Background

FRL1 Antibody: The Formin-like protein 1 (FRL1) gene encodes a formin-related protein which has been implicated in morphogenesis, cytokinesis, 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.

FRL1 Antibody - 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.