

Rabbit anti-Human, Mouse FIR Polyclonal Antibody | anti-FIR antibody

FIR Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA321083	Rabbit	Human, Mouse	ELISA, Immunocytochemistry, Immunofluorescence, Western Blot

PRODUCT SYNONYMS

FIR; Polyclonal Antibody; FIR Antibody; FARP2; FARP2_HUMAN; FERM; FERM domain including RhoGEF; RhoGEF and pleckstrin domain protein 2; RhoGEF and pleckstrin domain-containing protein 2; FGD1 related Cdc42 GEF; FRG; KIAA0793; PH domain-containing family C member 3; Pleckstrin homology domain-containing family C member 3; PLEKHC3; anti-FIR antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse
Clonality	Polyclonal
Isotype	IgG
Specificity	FIR antibody detects endogenous levels of FIR
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	647
Applicable Applications for anti-FIR antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), WB (Western Blot)
Immunogen	A synthesized peptide derived from human FIR
Predicted Cross Reactivity	Pig, Horse, Sheep, Dog
Similarity	Pig (100%), Horse (82%), Sheep (82%), Dog (82%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IF (Immunofluorescence)

AAA321083 staining HuvEc by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary antibody.



WB (Western Blot)

Western blot analysis on HuvEc cell lysate using FIR Antibody, The lane on the left is treated with the antigen-specific peptide.



WB (Western Blot)

Western blot analysis of fir expression in mouse brain lysate

ADDITIONAL INFORMATION

Related Product Information for anti-FIR antibody	Description: Rho-guanine nucleotide exchange factor that activates RAC1. Plays a role in the response to class 3 semaphorins and remodeling of the actin cytoskeleton. Interacts with PLXNA1. Interaction with PLXNA1 or PIP5K1C lowers its guanine nucleotide exchange activity. Dissociates from PLXNA1 when SEMA3A binds to the receptor. Interacts with PIP5K1C via its FERM domain. The interaction with PIP5K1C is enhanced by SEMA3A binding. 2 isoforms of the human protein are produced by alternative splicing. Function: Functions as guanine nucleotide exchange factor that activates RAC1. May have relatively low activity. Plays a role in the response to class 3 semaphorins and remodeling of the actin cytoskeleton. Plays a role in TNFSF11-mediated osteoclast differentiation, especially in podosome rearrangement and reorganization of the actin cytoskeleton. Regulates the activation of ITGB3, integrin signaling and cell adhesion (By similarity). Subunit Structure: Interacts with PLXNA1. Interaction with PLXNA1 or PIP5K1C lowers its guanine nucleotide exchange activity. Dissociates from PLXNA1 when SEMA3A binds to the receptor. Interacts with PIP5K1C via its FERM domain. The interaction with PIP5K1C is enhanced by SEMA3A binding. Interacts with RAC1 (By similarity). Similarity: Intramolecular interaction between the DH domain and the PH domains can stabilize the protein in an autoinhibited conformation.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	545478372
NCBI GeneID	9855
NCBI Accession #	NP_001269912.1
NCBI GenBank Nucleotide #	NM_001282983.1
UniProt Accession #	O94887; Q53QM5; Q8WU27; Q9UFE7; B7Z6J8; F5GZ84
Molecular Weight	Observed: 119 kDa Predicted: 120 kDa
NCBI Official Full Name	FERM, ARHGEF and pleckstrin domain-containing protein 2 isoform b
NCBI Official Synonym Full Names	FERM, ARH/RhoGEF and pleckstrin domain protein 2
NCBI Official Symbol	FARP2
NCBI Official Synonym Symbols	FIR; FRG; PLEKHC3
NCBI Protein Information	FERM, ARHGEF and pleckstrin domain-containing protein 2
UniProt Protein Name	FERM, ARHGEF and pleckstrin domain-containing protein 2
UniProt Gene Name	FARP2
UniProt Synonym Gene Names	KIAA0793; PLEKHC3; FIR; PH domain-containing family C member 3

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.