FIR Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	FIR, Polyclonal Antibody
Full Product Name	FIR Antibody
Product Gene Name	anti-FIR antibody
Product Synonym Names	FERM; RhoGEF and pleckstrin domain protein 2; FGD1-related Cdc42-GEF; FIR; FRG
Clonality	Polyclonal
Isotype	Rabbit IgG
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	Rabbit IgG in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purity/Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Specificity	The antibody detects endogenous levels of total FIR protein.
Preparation and Storage	Store at 4 degree C short term. Aliquot and store at -20 degree C long term. Avoid freeze/thaw cycles.
Molecular Weight	119,888 Da
Chromosome Location	Chromosome: 2; NC_000002.11 (242295664..242434256). Location: 2q37.3
3D Structure	ModBase 3D Structure for O94887
Immunogen	Synthesized peptide derived from Internal of human FIR.
Product Categories/Family for anti-FIR antibody	Primary Antibody
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-FIR antibody	Western Blot (WB)
Application Notes for anti-FIR antibody	WB: 1:500~1:3000
Related Product Information for anti-FIR antibody	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.
Product References and Citations for anti-FIR antibody	Nagase T., DNA Res. 5:31-39 (1998).The MGC Project Team, Genome Res. 14:2121-2127 (2004).Jandrig B., Oncogene 23:9295-9302 (2004)
Other Notes	Small volumes of anti-FIR antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for FIR purchase	MBS8587206 is an antibody targeting FIR. Also known as FIR Antibody. Reactive in Human, Mouse. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for FIR. It may not necessarily be applicable to this product.

NCBI GI #	7662310
NCBI GeneID	9855
NCBI Accession #	NP_055623.1
UniProt Primary Accession #	O94887
UniProt Secondary Accession #	Q53QM5; Q8WU27; Q9UFE7
UniProt Related Accession #	O94887
GenBank Nucleotide #	NM_014808.2
NCBI Official Full Name	FERM, RhoGEF and pleckstrin domain-containing protein 2
NCBI Official Synonym Full Names	FERM, RhoGEF and pleckstrin domain protein 2
NCBI Official Symbol	FARP2
NCBI Official Synonym Symbols	FIR; FRG; PLEKHC3
UniProt Protein Name	FERM, RhoGEF and pleckstrin domain-containing protein 2
UniProt Synonym Protein Names	FERM domain including RhoGEF; FIR; Pleckstrin homology domain-containing family C member 3
Protein Family	FERM, RhoGEF and pleckstrin domain-containing protein
UniProt Gene Name	FARP2
UniProt Synonym Gene Names	KIAA0793; PLEKHC3; FIR
UniProt Entry Name	FARP2_HUMAN
NCBI Protein Information	FERM, RhoGEF and pleckstrin domain-containing protein 2; FGD1-related Cdc42-GEF; FERM domain including RhoGEF; PH domain-containing family C member 3; pleckstrin homology domain-containing family C member 3
UniProt Comments for FIR	FARP2: Rho-guanine nucleotide exchange factor that activates RAC1. Plays a role in the response to class 3 semaphorins and remodeling of the actin cytoskeleton. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Motility/polarity/chemotaxis; Cell development/differentiation; GEFs, Rac/Rho; GEFs Chromosomal Location of Human Ortholog: 2q37.3 Cellular Component: cytoskeleton; extrinsic to membrane; cytoplasm; cytosol Molecular Function: Rho guanyl-nucleotide exchange factor activity; Rac guanyl-nucleotide exchange factor activity; cytoskeletal protein binding Biological Process: axon guidance; regulation of integrin activation; actin cytoskeleton reorganization; Rac protein signal transduction; osteoclast differentiation; cell adhesion; neuron remodeling
Research Articles on FIR	**1.** Observational study of gene-disease association. (HuGE Navigator)
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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