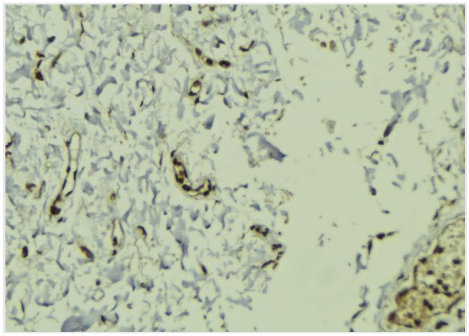
Kindlin 2 (FERMT2) Antibody – Rabbit Polyclonal

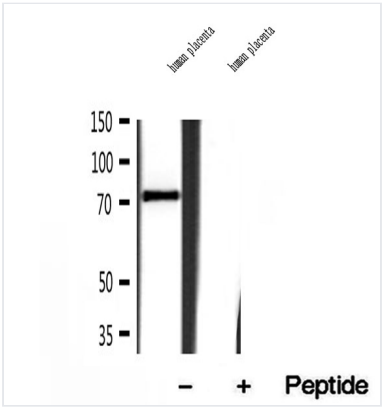
PRODUCT OVERVIEW

Product Name	Kindlin 2 (FERMT2), Polyclonal Antibody
Full Product Name	Kindlin 2 Antibody
Product Gene Name	anti-FERMT2 antibody
Product Synonym Names	FLJ34213; FLJ44462; UNC112; FERM2_HUMAN; Fermitin family homolog 2; Fermt2; KIND2; Kindlin-2; MIG-2; MIG2; Mitogen-inducible gene 2 protein; PH domain-containing family C member 1; Pleckstrin homology domain containing family C (with FERM domain) member 1; Pleckstrin homology domain-containing family C member 1; PLEKHC1; UNC112B
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Concentration	1mg/ml (lot specific)
Specificity	Kindlin 2 antibody detects endogenous levels of Kindlin 2.
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.
Antibody/Peptide Pairs	Kindlin 2 peptide (MBS9620783) is used for blocking the activity of Kindlin 2 antibody (MBS9603306)
Molecular Weight	Observed: 78 kDa Predicted: 78 kDa
3D Structure	ModBase 3D Structure for Q96AC1
Supply Chain Verification	Manufactured in a lab with traceable raw materials manufactured on site. Coordinated product portfolio of antibodies, pairs, conjugates, recombinant proteins, and immunoassay materials available, please inquire.
Immunogen	A synthesized peptide derived from human Kindlin 2.
Subcellular Location	Cytoplasm > Cell Cortex. Cytoplasm > Cytoskeleton. Cell Junction > Focal Adhesion. Within actin stress fibers at cell-ECM focal adhesion sites.
Tissue Specificity	Ubiquitous. Found in numerous tumor tissues.
Predicted Cross Reactivity	**Pig, Zebrafish, Bovine, Horse, Sheep, Rabbit, Dog, Chicken, Xenopus**
Similarity	Pig (92%), Zebrafish (100%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (100%), Dog (100%), Chicken (100%), Xenopus (100%)
Conjugation	Unconjugated
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-FERMT2 antibody	Western Blot (WB), Immunohistochemistry (IHC)
Application Notes for anti-FERMT2 antibody	WB: 1:500-1:2000 IHC: 1:50-1:200

Related Product Information for anti-FERMT2 antibody	Function: Scaffolding protein that enhances integrin activation mediated by TLN1 and/or TLN2, but activates integrins only weakly by itself. Binds to membranes enriched in phosphoinositides. Enhances integrin-mediated cell adhesion onto the extracellular matrix and cell spreading; this requires both its ability to interact with integrins and with phospholipid membranes. Required for the assembly of focal adhesions. Participates in the connection between extracellular matrix adhesion sites and the actin cytoskeleton and also in the orchestration of actin assembly and cell shape modulation. Recruits FBLIM1 to focal adhesions. Plays a role in the TGFB1 and integrin signaling pathways. Stabilizes active CTNNB1 and plays a role in the regulation of transcription mediated by CTNNB1 and TCF7L2/TCF4 and in Wnt signaling. Subunit Structure: Interacts with ILK (By similarity). Interacts with FBLIM1. Interacts with ITGB1 and ITGB3. Interacts with active, unphosphorylated CTNNB1. Identified in a complex with CTNNB1 and TCF7L2/TCF4. Interacts with ITGB1; the interaction is inhibited in presence of ITGB1BP1. Similarity: The FERM domain is not correctly detected by PROSITE or Pfam techniques because it contains the insertion of a PH domain.The PH domain binds phospholipids. Binds preferentially phosphatidylinositol-3, 4, 5-trisphosphate, and has lower affinity for phosphatidylinositol-4, 5-bisphosphate (PubMed:22030399).The N-terminal region displays a ubiquitin-type fold and mediates interaction with membranes containing negatively charged phosphatidylinositol phosphate via a surface enriched in positively charged residues. Belongs to the kindlin family.
Other Notes	Small volumes of anti-FERMT2 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 FERMT2 purchase	MBS9603306 is an antibody targeting FERMT2. Also known as Kindlin 2 Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.



Immunohistochemistry (IHC) of anti-FERMT2 antibody
MBS9603306 at 1/100 staining Human breast cancer tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



Western Blot (WB) of anti-FERMT2 antibody
Western blot analysis of extracts of human placenta tissue, using Kindlin 2 antibody.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for FERMT2. It may not necessarily be applicable to this product.

NCBI GI #	201861813
NCBI GeneID	10979
NCBI Accession #	NP_001128471.1
UniProt Primary Accession #	Q96AC1
UniProt Secondary Accession #	Q14840; Q86TY7; B5TJY2
UniProt Related Accession #	Q96AC1
GenBank Nucleotide #	NM_001134999.1
NCBI Official Full Name	fermitin family homolog 2 isoform 2
NCBI Official Synonym Full Names	fermitin family member 2
NCBI Official Symbol	FERMT2
NCBI Official Synonym Symbols	MIG2; KIND2; mig-2; UNC112; PLEKHC1; UNC112B

UniProt Protein Name	Fermitin family homolog 2
UniProt Synonym Protein Names	Kindlin-2; Mitogen-inducible gene 2 protein; MIG-2; Pleckstrin homology domain-containing family C member 1; PH domain-containing family C member 1
Protein Family	Fermitin family
UniProt Gene Name	FERMT2
UniProt Synonym Gene Names	KIND2; MIG2; PLEKHC1; MIG-2; PH domain-containing family C member 1
NCBI Protein Information	fermitin family homolog 2
UniProt Comments for FERMT2	Scaffolding protein that enhances integrin activation mediated by TLN1 and/or TLN2, but activates integrins only weakly by itself. Binds to membranes enriched in phosphoinositides. Enhances integrin-mediated cell adhesion onto the extracellular matrix and cell spreading; this requires both its ability to interact with integrins and with phospholipid membranes. Required for the assembly of focal adhesions. Participates in the connection between extracellular matrix adhesion sites and the actin cytoskeleton and also in the orchestration of actin assembly and cell shape modulation. Recruits FBLIM1 to focal adhesions. Plays a role in the TGFB1 and integrin signaling pathways. Stabilizes active CTNNB1 and plays a role in the regulation of transcription mediated by CTNNB1 and TCF7L2/TCF4 and in Wnt signaling.
Research Articles on FERMT2	**1.** Results found Kindlin-2 expression upregulated in hepatocellular carcinoma (HCC) tissues and cell lines and it correlates with aggressive clinicopathological features and poor prognosis. Mechanistically, Kindlin-2 promotes HCC invasion, metastasis and epithelial-mesenchymal transition through Wnt/beta-catenin signaling.
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