10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

EPB41L4B Rabbit pAb

EPB41L4B Rabbit pAb
Catalog # AP55052

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q9H329
Reactivity	Human, Mouse
Predicted	Rat, Dog, Horse, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	99712
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human EPB41L4B
Epitope Specificity	351-450/900
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Cytoplasm; cytoskeleton.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Predicted to be a structural constituent of cytoskeleton. Involved in several processes, including positive regulation of cell adhesion; positive regulation of keratinocyte migration; and wound healing. Acts upstream of or within actomyosin structure organization. Located in apical part of cell; cytosol; and plasma membrane. [provided by Alliance of Genome Resources, Apr 2022]

Additional Information

Gene ID	54566
Other Names	Band 4.1-like protein 4B, Erythrocyte membrane protein band 4.1-like 4B {ECO:0000312|HGNC:HGNC:19818}, FERM-containing protein CG1, Protein EHM2, EPB41L4B (HGNC:19818)
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

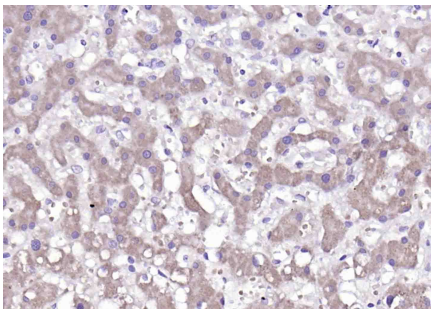
Name	EPB41L4B (HGNC:19818)

Function	Up-regulates the activity of the Rho guanine nucleotide exchange factor ARHGEF18 (By similarity). Involved in the regulation of the circumferential actomyosin belt in epithelial cells (PubMed:22006950). Promotes cellular adhesion, migration and motility in vitro and may play a role in wound healing (PubMed:23664528). May have a role in mediating cytoskeletal changes associated with steroid- induced cell differentiation (PubMed:14521927).
Cellular Location	Cytoplasm. Cell junction, tight junction Note=Accumulates along apical cell-cell boundaries and is also detected in the cytoplasm in a punctate manner.
Tissue Location	Expressed at higher levels in acute wounds than chronic wounds with increased expression in healing wounds, especially at the leading wound edge (PubMed:23664528). Isoform 1 is highly expressed in brain. Isoform 2 is highly expressed in testis with lower levels in prostate and breast (PubMed:14521927)

Background

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

Images



Paraformaldehyde-fixed, paraffin embedded (human liver); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (EPB41L4B) Polyclonal Antibody, Unconjugated (AP55052) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.

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