

Rabbit anti-Human, Mouse EPB41 Polyclonal Antibody | anti-EPB41 antibody

EPB41 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA323341	Rabbit	Human, Mouse	ELISA, Immunocytochemistry, Immunofluorescence, Western Blot

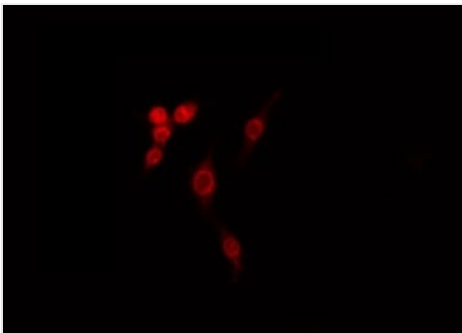
PRODUCT SYNONYMS

EPB41; Polyclonal Antibody; EPB41 Antibody; 4.1R; 41_HUMAN; Band 4.1; E41P; EL 1; EL1; EL1 gene; Elliptocytosis 1; Elliptocytosis 1 RH linked; EPB 4.1; EPB 41; EPB4.1; Epb41; Erythrocyte membrane protein band 4.1 (elliptocytosis 1 RH linked); Erythrocyte membrane protein band 4.1; Erythrocyte surface protein band 4.1; HE; P4.1; Protein 4.1; red blood cell type; anti-EPB41 antibody

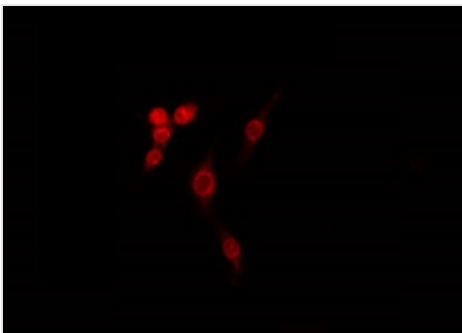
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse
Clonality	Polyclonal
Isotype	IgG
Specificity	EPB41 antibody detects endogenous levels of total EPB41
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	864
Applicable Applications for anti-EPB41 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), WB (Western Blot)
Immunogen	A synthesized peptide
Subcellular Location	Cytoplasm > Cytoskeleton. Cytoplasm > Cell Cortex. Nucleus.
Conjugation	Unconjugated

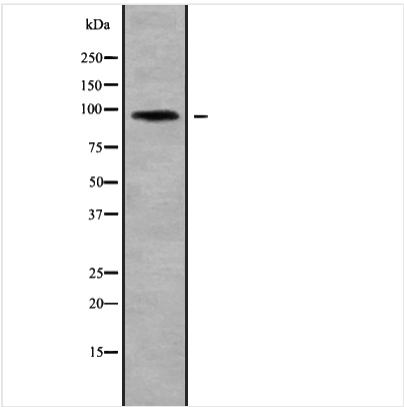
IMAGES



IF (Immunofluorescence)
AAA323341 staining HepG2 cells 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) antibody, diluted at 1/600, was used as secondary antibody.



IF (Immunofluorescence)
AAA323341 staining 293T 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 of EPB41 expression in 293T cell lysate, The lane on the left is treated with the antigen-specific peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-EPB41 antibody	Function: Protein 4.1 is a major structural element of the erythrocyte membrane skeleton. It plays a key role in regulating membrane physical properties of mechanical stability and deformability by stabilizing spectrin-actin interaction. Recruits DLG1 to membranes. Required for dynein-dynactin complex and NUMA1 recruitment at the mitotic cell cortex during anaphase (PubMed:23870127). Subunit Structure: Binds with a high affinity to glycophorin and with lower affinity to band III protein. Associates with the nuclear mitotic apparatus. Interacts with calmodulin (PubMed:10692436). Interacts with CENPJ (PubMed:11003675). Interacts with DLG1 (PubMed:7937897). Also found to associate with contractile apparatus and tight junctions. Interacts with NUMA1; this interaction is negatively regulated by CDK1 during metaphase and promotes anaphase-specific localization of NUMA1 in symmetrically dividing cells (PubMed:23870127). Post-translational Modifications: Phosphorylated at multiple sites by different protein kinases and each phosphorylation event selectively modulates the protein's functions. Phosphorylation on Tyr-660 reduces the ability of 4.1 to promote the assembly of the spectrin/actin/4.1 ternary complex. O-glycosylated; contains N-acetylglucosamine side chains in the C-terminal domain.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	260436831
NCBI GeneID	2035
NCBI Accession #	NP_001159477.1
NCBI GenBank Nucleotide #	NM_001166005.1

UniProt Accession #	P11171; P11176; Q14245; Q5TB35; Q5VXN8; Q8IXV9; Q9Y578; Q9Y579; B1ALH8; B1ALH9; D3DPM9; D3DPN0
Molecular Weight	Observed: 97 kDa Predicted: 98 kDa
NCBI Official Full Name	protein 4.1 isoform 1
NCBI Official Synonym Full Names	erythrocyte membrane protein band 4.1
NCBI Official Symbol	EPB41
NCBI Official Synonym Symbols	HE; EL1; 4.1R
NCBI Protein Information	protein 4.1
UniProt Protein Name	Protein 4.1
UniProt Gene Name	EPB41
UniProt Synonym Gene Names	E41P; P4.1

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.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/epb41-antibody-immunocytochemistry-immunofluorescence-western-blot-elisa/323341>