

EPB41 Antibody (monoclonal) (M01)**Mouse monoclonal antibody raised against a partial recombinant EPB41.****Catalog # AT1922a****Specification**

EPB41 Antibody (monoclonal) (M01) - Product Information

Application	WB, IHC, IF, E
Primary Accession	P11171
Other Accession	BC039079
Reactivity	Human
Host	mouse
Clonality	Monoclonal
Isotype	IgG1 Kappa
Calculated MW	97017

EPB41 Antibody (monoclonal) (M01) - Additional Information**Gene ID** 2035**Other Names**

Protein 41, P41, 41R, Band 41, EPB41, EPB41, E41P

Target/Specificity

EPB41 (AAH39079, 116 a.a. ~ 225 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

Dilution

WB~~1:500~1000

IHC~~1:100~500

IF~~1:50~200

E~~N/A

Format

Clear, colorless solution in phosphate buffered saline, pH 7.2 .

Storage

Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Precautions

EPB41 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

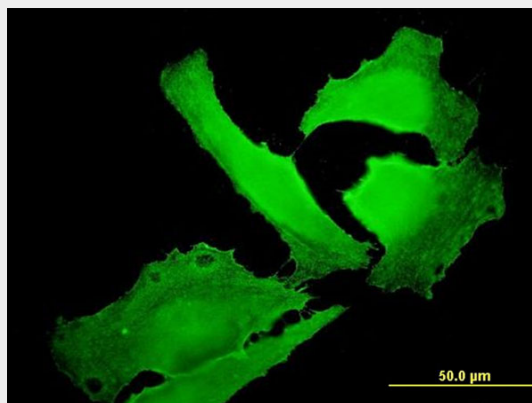
EPB41 Antibody (monoclonal) (M01) - Protocols

Provided below are standard protocols that you may find useful for product applications.

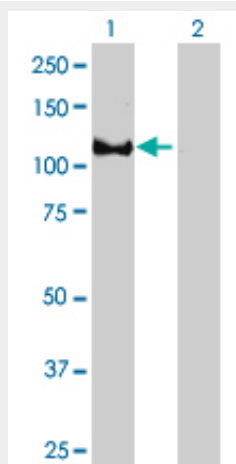
- [Western Blot](#)

- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

EPB41 Antibody (monoclonal) (M01) - Images



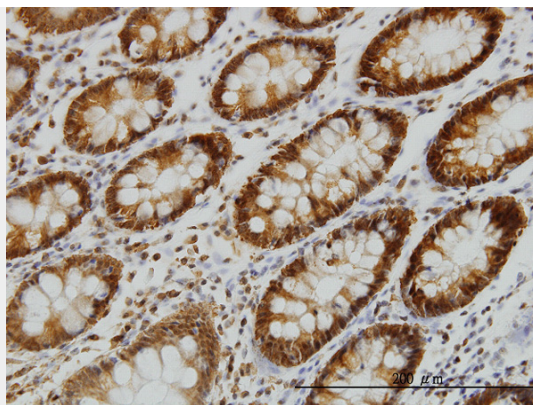
Immunofluorescence of monoclonal antibody to EPB41 on HeLa cell . [antibody concentration 10 ug/ml]



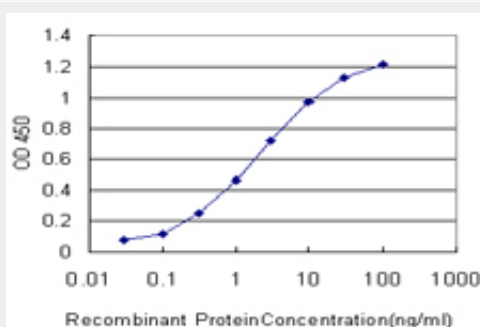
Western Blot analysis of EPB41 expression in transfected 293T cell line by EPB41 monoclonal antibody (M01), clone 3D9.

Lane 1: EPB41 transfected lysate(81 KDa).

Lane 2: Non-transfected lysate.



Immunoperoxidase of monoclonal antibody to EPB41 on formalin-fixed paraffin-embedded human colon. [antibody concentration 3 ug/ml]



Detection limit for recombinant GST tagged EPB41 is approximately 0.03ng/ml as a capture antibody.

EPB41 Antibody (monoclonal) (M01) - Background

The protein encoded by this gene, together with spectrin and actin, constitute the red cell membrane cytoskeletal network. This complex plays a critical role in erythrocyte shape and deformability. Mutations in this gene are associated with type 1 elliptocytosis (EL1). Alternatively spliced transcript variants encoding different isoforms have been described for this gene.

EPB41 Antibody (monoclonal) (M01) - References

Identification of SNP markers on 1p36 and association analysis of EPB41 with mandibular prognathism in a Chinese population. Xue F, et al. Arch Oral Biol, 2010 Aug 24. PMID 20797695. Protein 4.2 binds to the carboxyl-terminal EF-hands of erythroid alpha-spectrin in a calcium- and calmodulin-dependent manner. Korsgren C, et al. J Biol Chem, 2010 Feb 12. PMID 20007969. Coupled transcription-splicing regulation of mutually exclusive splicing events at the 5' exons of protein 4.1R gene. Huang SC, et al. Blood, 2009 Nov 5. PMID 19729518. Solution structure and glycophorin C binding studies of the protein 4.1R FERM alpha-lobe domain. Kusunoki H, et al. Proteins, 2009 Jul. PMID 19338061. Alternatively spliced exon 5 of the FERM domain of protein 4.1R encodes a novel binding site for erythrocyte p55 and is critical for membrane targeting in epithelial cells. Seo PS, et al. Biochim Biophys Acta, 2009 Feb. PMID 18952129.