



4.1R (phospho Tyr660) Polyclonal Antibody

Catalog No	YP-Ab-03541
Isotype	IgG
Reactivity	Human;Mouse
Applications	WB;IHC;IF;ELISA
Gene Name	EPB41
Immunogen	The antiserum was produced against synthesized peptide derived from human EPB41 around the phosphorylation site of Tyr660/418. AA range:626-675
Specificity	Phospho-4.1R (Y660) Polyclonal Antibody detects endogenous levels of 4.1R protein only when phosphorylated at Y660.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB: 1/500 - 1/2000. IHC: 1/100 - 1/300. ELISA: 1/5000.. IF 1:50-200
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	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
Observed Band	60kD
Calculated Molecular Weight	60kD
Cell Pathway	Cytoplasm, cytoskeleton . Cytoplasm, cell cortex . Nucleus .
Tissue Specificity	Brain,PCR rescued clones,Reticulocyte,Spleen,
Function	disease:Defects in EPB41 are a cause of hereditary pyropoikilocytosis (HPP) [MIM:266140]. HPP is an autosomal recessive hematologic disorder characterized by hemolytic anemia, microspherocytosis, poikilocytosis, and an unusual thermal sensitivity of red cells.,disease:Defects in EPB41 are the cause of elliptocytosis type 1 (EL1) [MIM:611804]. EL1 is a Rhesus-linked form of hereditary elliptocytosis, a genetically heterogeneous, autosomal dominant, hematologic disorder. It is characterized by variable hemolytic anemia and



elliptical or oval red cell shape.,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.,PTM:O-glycosylated; contains N-acetylglucosamine side chains in the C-ter

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.[provided by RefSeq, Oct 2009],

matters needing attention

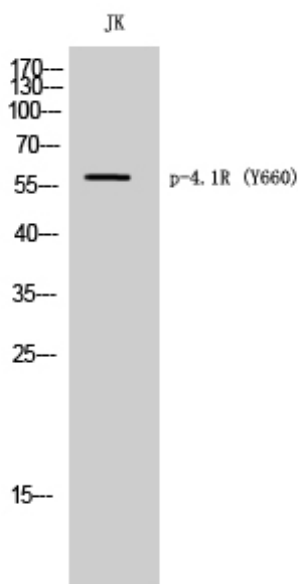
Avoid repeated freezing and thawing!

Usage suggestions

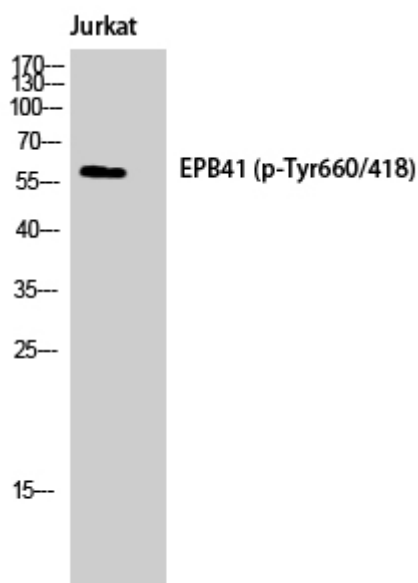
This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.



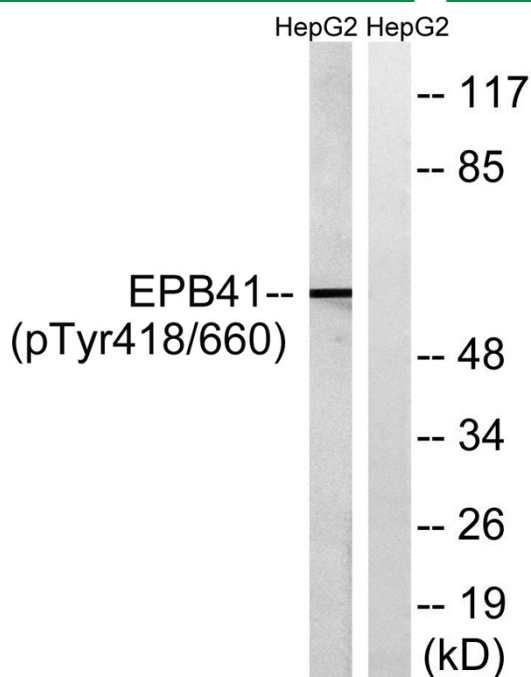
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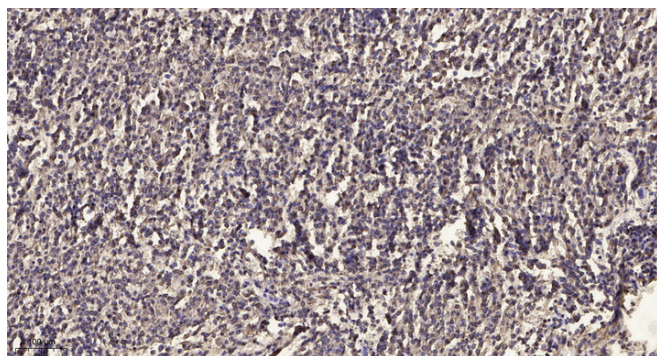
Western Blot analysis of JK cells using Phospho-4.1R (Y660) Polyclonal Antibody



Western Blot analysis of Jurkat cells using Phospho-4.1R (Y660) Polyclonal Antibody



Western blot analysis of lysates from HepG2 cells treated with PMA 125ng/ml 30', using EPB41 (Phospho-Tyr660/418) Antibody. The lane on the right is blocked with the phospho peptide.



Immunohistochemical analysis of paraffin-embedded human meningioma. 1, Antibody was diluted at 1:200(4 ° overnight). 2, Tris-EDTA,pH9.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200(room temperature, 45min).