

## 4.1R Polyclonal Antibody

<b>Catalog No :</b>	YT0017
<b>Reactivity :</b>	Human;Mouse
<b>Applications :</b>	WB;ELISA
<b>Target :</b>	4.1R
<b>Gene Name :</b>	EPB41
<b>Protein Name :</b>	Protein 4.1
<b>Human Gene Id :</b>	2035
<b>Human Swiss Prot No :</b>	P11171
<b>Mouse Gene Id :</b>	269587
<b>Mouse Swiss Prot No :</b>	P48193
<b>Immunogen :</b>	The antiserum was produced against synthesized peptide derived from human EPB41. AA range:626-675
<b>Specificity :</b>	4.1R Polyclonal Antibody detects endogenous levels of 4.1R protein.
<b>Formulation :</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source :</b>	Polyclonal, Rabbit,IgG
<b>Dilution :</b>	WB 1:500 - 1:2000. ELISA: 1:5000. Not yet tested in other applications.
<b>Purification :</b>	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
<b>Concentration :</b>	1 mg/ml
<b>Storage Stability :</b>	-15°C to -25°C/1 year(Do not lower than -25°C)

**Observed Band :** 60kD

**Cell Pathway :** Tight junction;

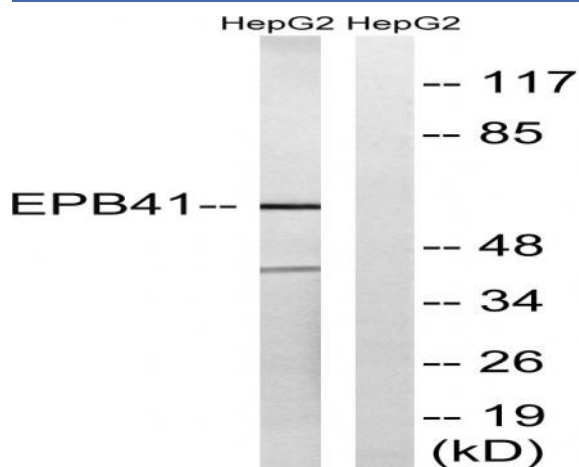
**Background :** The protein encoded by this gene, together with spectrin and actin, constitute the red cell membrane cytoskeletal network. This complex plays a critical role in erythrocyte shape and deformability. Mutations in this gene are associated with type 1 elliptocytosis (EL1). Alternatively spliced transcript variants encoding different isoforms have been described for this gene.[provided by RefSeq, Oct 2009],

**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

**Subcellular Location :** Cytoplasm, cytoskeleton . Cytoplasm, cell cortex . Nucleus .

**Expression :** Brain,PCR rescued clones,Reticulocyte,Spleen,

## Products Images



Western blot analysis of lysates from HepG2 cells treated with PMA 125ng/ml 30', using EPB41 Antibody. The lane on the right is blocked with the synthesized peptide.