



Catalog #: APRab04181



## Summary

4.1R (phospho Tyr660) Rabbit Polyclonal Antibody **Production Name** 

Description Rabbit Polyclonal Antibody

Rabbit Host **Application** WB,ELISA Reactivity Human, Mouse

#### **Performance**

Conjugation Unconjugated

Phospho Antibody Modification

Isotype IgG

Clonality Polyclonal **Form** Liquid

Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw Storage

cycles.

**Buffer** Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.

**Purification** Affinity purification

#### **Immunogen**

Gene Name EPB41

**Alternative Names** EPB41; E41P; Protein 4.1; P4.1; 4.1R; Band 4.1; EPB4.1

Gene ID 2035.0

P11171. The antiserum was produced against synthesized peptide derived from human **SwissProt ID** 

EPB41 around the phosphorylation site of Tyr660/418. AA range:626-675

# **Application**

**Dilution Ratio** WB 1:500 - 1:2000. ELISA: 1:5000.

**Molecular Weight** 60kD

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Antibody

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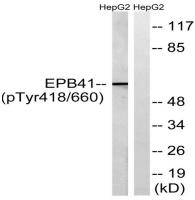
#### Background

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], 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-qlycosylated; contains N-acetylglucosamine side chains in the C-terminal domain., PTM:Phosphorylated at multiple sites by different protein kinases and each phosphorylation event selectively modulates the protein's functions., PTM: Phosphorylation on Tyr-660 reduces the ability of 4.1 to promote the assembly of the spectrin/actin/4.1 ternary complex., similarity: Contains 1 FERM domain., subunit: Binds with a high affinity to glycophorin and with lower affinity to band III protein. Associates with the nuclear mitotic apparatus. Binds calmodulin, CENPJ and DLG1. Also found to associate with contractile apparatus and tight junctions.,

#### Research Area

Tight junction;

### **Image Data**



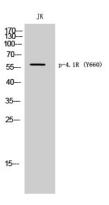
Western blot analysis of lysates from HepG2 cells treated with PMA 125ng/ml 30 ', using EPB41 (Phospho-Tyr660/418) Antibody. The lane on the right is blocked with the phospho peptide.

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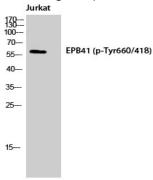
# Product Name: 4.1R (phospho Tyr660) Rabbit Polyclonal Enkilife Antibody



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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

#### Note

For research use only.