

Product datasheet

Recombinant Human EPB41 protein ab158364

1 Image

Overview

Product name	Recombinant Human EPB41 protein
Protein length	Protein fragment

Description

Nature	Recombinant
Source	Wheat germ

Amino Acid Sequence

Species	Human
Sequence	IEFGTSLDEEIIILKAPIAAPEPELKTDPSTLDLHSLSSAETQPAQEELRED PDFEIKEGEGLEECISKIEVKEESPQSKAETELKASQKPIRKHRNMHCKVS LLDDTVYECV
Amino acids	116 to 225
Tags	proprietary tag N-Terminus

Specifications

Our [Abpromise guarantee](#) covers the use of **ab158364** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	Western blot ELISA
Form	Liquid
Additional notes	Protein concentration is above or equal to 0.05 mg/ml.

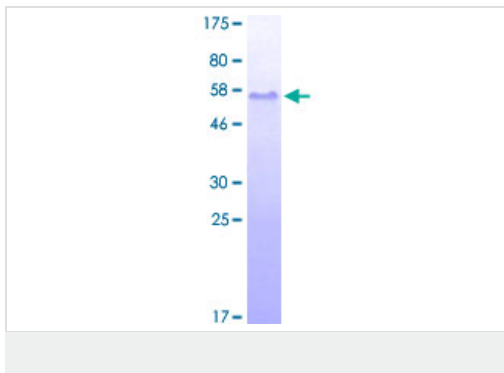
Preparation and Storage

Stability and Storage	Shipped on dry ice. Upon delivery aliquot and store at -80°C. Avoid freeze / thaw cycles. pH: 8.00 Constituents: 0.31% Glutathione, 0.79% Tris HCl
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General Info

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.
Involvement in disease	<p>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.</p> <p>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.</p>
Sequence similarities	Contains 1 FERM domain.
Post-translational modifications	<p>Phosphorylated at multiple sites by different protein kinases and each phosphorylation event selectively modulates the protein's functions.</p> <p>Phosphorylation on Tyr-660 reduces the ability of 4.1 to promote the assembly of the spectrin/actin/4.1 ternary complex.</p> <p>O-glycosylated; contains N-acetylglucosamine side chains in the C-terminal domain.</p>
Cellular localization	Cytoplasm > cytoskeleton. Cytoplasm > cell cortex. Nucleus.

Images



ab158364 on a 12.5% SDS-PAGE stained with Coomassie Blue.

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