Recombinant Human EPB41

Cat. No. EPB41-28575TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human EPB41 with N terminal proprietary tag, 105.27kDa.
Species	Human
Source	Wheat Germ
ProteinLength	720 amino acids
Description	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.
Molecular Weight	105.270kDa inclusive of tags
Purity	Proprietary Purification
Storage buffer	pH: 8.00Constituents:0.3% Glutathione, 0.79% Tris HCl
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	MTTEKSLVTEAENSQHQQKEEGEEAINSGQQEPQQEESCQ TAAEGDNWCEQKLK ASNGDTPTHEDLTKNKERTSESRGLS RLFSSFLKRPKSQVSEEEGKEVESDKEKGE

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	GGQKEIEFGT SLDEEIILKAPIAAPEPELKTDPSLDLHSLSSAETQPAQE ELREDPDF EIKEGEGLEECSKIEVKEESPQSKAETELKAS QKPIRKHRNMHCKVSLLDDTVYECV VEKHAKGQDLLKRVC EHLNLLEEDYFGLAIWDNATSKTWLDSAKEIKKQVRGVPW NFTFNVKFYPPDPAQLTEDITRYYLCLQLRQDIVAGRLPC SFATLALLGSYTIQSELG DYDPELHGVDYVSDFKLAPNQT KELEEKVMELHKSYRSMTPAQADLEFLENAKKLS MYGVDL HKAKDLEGVDIILGVCSSGLLVYKDKLRINRFPWPKVLKI SYKRSSFFIKIR PGEQEQYESTIGFKLPSYRAAKKLWKVC VEHHTFFRLTSTDTIPKSKFLALGSKFRY SGRTQAQTRQA SALIDRPAPHFERTASKRASRSLDGAAAVDSADRSPRPTS APAIT QGQVAEGGVLDASAKKTVVPKAQKETVKAEVKKED EPPEQAEPEPTEAWKVEKTH IEVTVPTSNGDQTQKKRERL DGENIYIRHSNLMLEDLDKSQEEIKKHHASISELKKNF ME SVPEPRPSEWDKRLSTHSPFRTLNINGQIPTGEGVSTLST
Sequence Similarities	Contains 1 FERM domain.

GENE INFORMATION

Gene Name	EPB41 erythrocyte membrane protein band 4.1 (elliptocytosis 1, RH-linked) [Homo sapiens]
Official Symbol	EPB41
Synonyms	EPB41; erythrocyte membrane protein band 4.1 (elliptocytosis 1, RH-linked); EL1; protein 4.1; 4.1R;
Gene ID	2035
mRNA Refseq	NM_001166005
Protein Refseq	NP_001159477

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MIM	130500
Uniprot ID	P11171
Chromosome Location	1p33-p32
Pathway	Syndecan-2-mediated signaling events, organism-specific biosystem; Tight junction, organism-specific biosystem; Tight junction, conserved biosystem;
Function	1-phosphatidylinositol binding; actin binding; protein binding; spectrin binding; structural constituent of cytoskeleton;

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