

Recombinant Human EPB41 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. EPB41-3551H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	EPB41 MS Standard C13 and N15-labeled recombinant protein (NP_976217) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
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 Mass	71.8 kDa
AA Sequence	MHCKVSLDDTVYECVVEKHAKGQDLLKRVCEHLNLEEDYFGLAIWDNATSKTWL DSAKEIKKQVRGVPWNFTFNVKFYPPDPAQLTEDITRYYLCLQLRQDIVAGRLPCSF ATLALLGSYTIQSELGDYDPELHGVDYVSDFKLAPNQTKKEEEKVMELHKSYSRSMTP AQADLEFLENAKKLSMYGVDLHKAKDLEGVDIILGVCSSGLLVYKDKLRINRFPWPKV LKISYKRSSFFIKIRPGEQEYESTIGFKLPSYRAAKKLWKVCVEHHTFFRLTSTDITIP KSKFLALGSKFRYSGRTQAQTRQASALIDRPAPHFERTASKRASRSLDGAAAVDSA DRSPRPTSAPAITQGQVAEGGVLDASAKKTVVPAQKETVKAEVKKEDEPPEQAEPE PTEAWKVEKTHIEVTVPSTNGDQTQKKRERLDGENIYIRHSNLMLEDLDKSQEEIK

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KHHASISELKKNFMESVPEPRPSEWDKRLSTHSPFRTLNINGQIPTGEGPPLVKTQT
VTISDNANAVKSEIPTKDVPIVHTETKTITYEAAQTDDNSGDLDPGVLLTAQTITSETP
SSTTTTQITKTVKGGISETRIEKRIVITGDADIDHDQVLVQAIKEAKEQHPDMSVTKVV
VHQETEIADETRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name EPB41 erythrocyte membrane protein band 4.1 [Homo sapiens (human)]

Official Symbol EPB41

Synonyms EPB41; erythrocyte membrane protein band 4.1 (elliptocytosis 1, RH-linked); EL1; protein 4.1; 4.1R; P4.1; EPB4.1; band 4.1; erythrocyte surface protein band 4.1; HE;

Gene ID 2035

mRNA Refseq NM_203342

Protein Refseq NP_976217

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MIM	130500
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UniProt ID	P11171
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