

Recombinant Human EPB49 Protein, GST-tagged

Cat. No. EPB49-3363H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human EPB49 full-length ORF (AAH52805.1, 1 a.a. - 383 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	Wheat Germ
Description	The protein encoded by this gene is an actin binding and bundling protein that plays a structural role in erythrocytes, by stabilizing and attaching the spectrin/actin cytoskeleton to the erythrocyte membrane in a phosphorylation-dependent manner. This protein contains a core domain in the N-terminus, and a headpiece domain in the C-terminus that binds F-actin. When purified from erythrocytes, this protein exists as a trimer composed of two 48 kDa polypeptides and a 52 kDa polypeptide. The different subunits arise from alternative splicing in the 3' coding region, where the headpiece domain is located. Disruption of this gene has been correlated with the autosomal dominant Marie Unna hereditary hypotrichosis disease, while loss of heterozygosity of this gene is thought to play a role in prostate cancer progression. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Nov 2014]
Molecular Mass	69.5 kDa
AA Sequence	MERLQKQPLTSPGSVSPSRDSSVPGSPSSIVAKMDNQVLGYKDLAAIPKDKAILDIER PDLMIYEPHFTYSLLEHVELPRSRERSLSPKSTSPPPSPEVWADSRSPGIISQASAPR

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TTGTPRTSLPHFHHPETSRPDSNIYKKPPIYKQRESVGGSPQTKHLIEDLIIESSKFPA
 AQPPDPNQPAKIETDYWPCPPSLAVVETEWKRKASRRGAEEEEEEEDDDSGEEM
 KALRERQREELSKVTSNLGKMILKEEMEKSLPIRRKTRSLPDRTPFHTSLHQGTSKS
 SSLPAYGRTTLSRLQSTEFSPSGSETGSPGLQIYPYEMLVVTNKGRTKLPPGVDRM
 RLERHLSAEDFSRVFAMSPEEFGKLALWKRNELKKKASLF

Applications

Enzyme-linked Immunoabsorbent Assay
 Western Blot (Recombinant protein)
 Antibody Production
 Protein Array

Notes Best use within three months from the date of receipt of this protein.

Storage Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

Storage Buffer 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name EPB49 erythrocyte membrane protein band 4.9 (dematin) [Homo sapiens]

Official Symbol EPB49

Synonyms EPB49; erythrocyte membrane protein band 4.9 (dematin); dematin; DMT; FLJ78462; FLJ98848;

Gene ID 2039

mRNA Refseq NM_001114135

Protein Refseq NP_001107607

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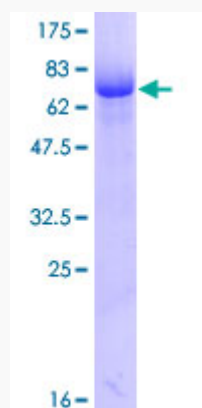
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MIM 125305

UniProt ID Q08495

Quality Control
Testing



12.5% SDS-PAGE Stained with Coomassie Blue.

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