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 AQPPDPNQPAKIETDYWPCPPSLAVVETEWRKRKASRRGAEEEEEEEDDDSGEEM 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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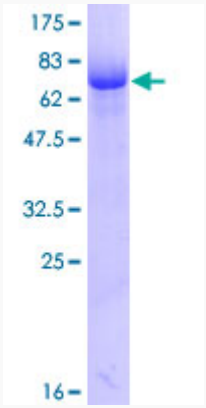
MIM	125305
UniProt ID	Q08495
Quality Control Testing	 12.5% SDS-PAGE Stained with Coomassie Blue.

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