

Recombinant Full Length Human EPB49 Protein, GST-tagged

Cat. No. EPB49-4274HF **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	In Vitro Cell Free System
ProteinLength	383 amino acids
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	MERLQKQPLTSPGSVSPSRDSSVPGSPSSIVAKMDNQVLGYKDIAIPKDKAILDIER

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

PDLMIYEPHFTYSLLEHVELPRSRERSLSPKSTSPPPSPEVWADSRSPGIISQASAPR
 TTGTPRTSLPHFHPETSRPDSNIYKKPPIYKQRESVGGSPQTKHLIEDLIISSKFPA
 AQPPDPNQPAKIETDYWPCPPSLAVVETEWKRKASRRGAEEEEEEEDDDSGEEM
 KALRERQREELSKVTSNLGKMILKEEMKSLPIRRKTRSLPDRTPFHTSLHQGTSKS
 SSLPAYGRITLSRLQSTEFSPSGSETGSPGLQIYPYEMLVVTNKGRTKLPPGVDRM
 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

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Protein Refseq	NP_001107607
MIM	125305
UniProt ID	Q08495

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA