

Recombinant Human ERBIN Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP50284

Size: 10ug, 100ug

Protein Name: Erbin (Densin-180-like protein) (ErbB2-interacting protein) (Protein LAP2)

Synonym: ERBIN, ERBB2IP, KIAA1225, LAP2

UniProt ID: Q96RT1

UniProt Link: www.uniprot.org/uniprotkb/Q96RT1/entry

Species Source: Human

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 1412 AA

Molecular Weight: 158 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MTTKRSLFVRLVPCRCLRGEEETVTTLDYSHCSLEQVPKEIFTFEKLEELYLDANQIEELPKQLFNC
QSLHKLSLPDNDLTTLPASIANLINLRELDVSKNGIQEFPENIKNCKVLTIVEASVNPISKLPDGFSQLLN
LTQLYLNDAFLEFLPANFGRLTKLQILELRENQLKMLPKTMNRLTQLERLDLGSNEFTEVPEVLEQLS
GLKEFWMDANRLTFIPGFIGSLKQLTYLDVSKNNIEMVEEGISTCENLQDLLLSSNSLQQLPETIGSLK
NITTLKIDENQLMYLPDSIGGLISVEELDCSFNEVEALPSSIGQLTNLRTFAADHNYLQQLPPEIGSWK
NITVFLHLSNKLETLPPEMGDMQKLKVINLSNRLKNLPFSFTKLQQLTAMWLSDNQSKPLIPLQKET
DSETQKMVLTYNMFPPQPRTEDEVFISDNESFNPSLWEEQRKQRAQVAFECDEKDEREAPPREG
NLKRYPTYPDELKNMVKTVQTIHRLKDEETNEDSGRDLKPHEDQQDINKDVGVTSESTTTVKSK
VDEREKYMIGNSVQKISEPEAEISPGSLPVTANMKASENLKHIVNHDDVFEESEELSSDEEMKMAEM
RPPLIETSINQPKVVALSNKKDDTKETDLSDEVTHNSNQNSNCSSPSRMSDSVSLNTDSSQDTS
LCSPVKQTHIDINSKIRQEDENFNSLLQNGDILNSSTEEKFKAHDKKDFNLPEYDLNVEERLVLEKSV
DSTATADDTHKLDHINMNLNKLITNDTFQPEIMERSKTQDIVLGTSLINSKEETHELENGNKYPNLE
SVNKVNGHSEETSQSPNRTEPHSDCSVDLGISKSTEDLSPQKSGPVGSVVKSHSITNMEIGGLKIY
DILSDNGPQQPSTTVKITSVDGKNIVRSK SATLLYDQPLQVFTGSSSSSDLSGTKAIFKFDSNHNPE
EPNIIRGPTSGPQSAPQIYGPPQYNIQYSSSAVKDTLWHSKQNPQIDHASFPQQLPRSESTENQS
YAKHSANMNFNHNVRANTAYHLHQRLGPARHGEMWAISPNDRLIPAVTRSTIQRQSSVSSTASV
NLGDPGSTRRRAQIPEGDYL SYREFHSAGRTPPMMPGSQRPLSARTYSIDGPNASRPQSARPSINEIP
ERTMSVSDFNYSRTSPSKRPNARVGSEHSLDPPGKSKVPRDWREQVLRHIEAKKLEKKHPQTSSS
GDPCQDGFISGQQNYSSATLSHKDVPPDSLMMKPLSNGQMGMQPLRPQANYSQIHPPQASVARH



PSREQLIDYLMKVAHQPPYTQPHCSPRQGHELAKQEIRVRVEKDPPELGFSISGGVGGRGNPFRPD
DDGIFVTRVQPEGPASKLLQPGDKIIQANGYSFINIEHGQAVSLLKTFQNTVELIIVREVSS

3. Buffer Composition

Liquid format: PBS-based buffer containing 50% glycerol. Glycerol concentration can be customized upon customer request; please state special requirements when placing your order.

Lyophilized format: Buffer before lyophilization is PBS supplemented with 6% trehalose.

4. Storage Conditions

Upon receipt, store the product at -20 °C or -80 °C. Aliquot the product for on-demand use to preserve protein activity and prevent denaturation and inactivation caused by repeated freeze-thaw cycles.

5. Product Description

This product is recombinant Erbin (Densin-180-like protein) (ErbB2-interacting protein) (Protein LAP2) produced using the HEK293T eukaryotic cell expression system. It is suitable for in-vitro functional assays, protein-protein interaction studies, antibody preparation and other biomedical research applications.

Protein Function: Acts as an adapter for the receptor ERBB2, in epithelia. By binding the unphosphorylated 'Tyr-1248' of receptor ERBB2, it may contribute to stabilize this unphosphorylated state (PubMed:16203728). Inhibits NOD2-dependent NF-kappa-B signaling and pro-inflammatory cytokine secretion (PubMed:16203728). Acts as a mediator of keratinocyte differentiation by sequestering SHOC2 away from ERK-activating RAS complexes (PubMed:23524970).

Subcellular Localization: Cell junction, hemidesmosome . Nucleus membrane . Basolateral cell membrane . Cytoplasm . Cell membrane . Note=Found in hemidesmosomes, which are cell-substrate adhesion complexes in stratified epithelia. In transfected cells, either diffusely distributed over the cytoplasm or concentrated at the basolateral membrane. Colocalizes with the adrenergic receptors, ADREN1A and ADREN1B, at the nuclear membrane of cardiac myocytes (By similarity).

6. Notes

- Avoid repeated freeze-thaw cycles to maintain protein stability and biological activity.
- Please specify special buffer-composition requirements at the time of order placement.
- For research use only. Not intended for clinical diagnosis, therapeutic use or commercial manufacturing.