

AR51747PU-S

Human PICK1 (1-415, His-tag) - Purified

Alternate names:	PRKCA-binding protein, PRKCABP, Protein interacting with C kinase 1, Protein kinase C-alpha-binding protein
Quantity:	50 µg
Concentration:	0.25 mg/ml (determined by Bradford assay)
Background:	PICK1 contains a PDZ domain, through which it interacts with protein kinase C, alpha (PRKCA). This protein may function as an adaptor that binds to and organizes the subcellular localization of a variety of membrane proteins. It has been shown to interact with multiple glutamate receptor subtypes, monoamine plasma membrane transporters, as well as non-voltage gated sodium channels, and may target PRKCA to these membrane proteins and thus regulate their distribution and function. PICK1 has also been found to act as an anchoring protein that specifically targets PRKCA to mitochondria in a ligand-specific manner.
Uniprot ID:	Q9NRD5
NCBI:	NP_001034673
GenelD:	9463
Species:	Human
Source:	E. coli
Format:	State: Liquid purified protein Purity: >85% by SDS - PAGE Buffer System: Phosphate buffered saline (pH7.4) containing 30% glycerol, 1mM DTT
Description:	Recombinant Human PICK1 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques. AA Sequence: MGSSHHHHHH SSGLVPRGSH MGSMFADLDY DIEEDKLGIP TVPGKVTLQK DAQNLIGISI GGGAQYCPCL YIVQVFDNTP AALDGTVAAG DEITGVNGRS IKGKTKVEVA KMIQEVKGEV TIHYNKLQAD PKQGMSLDIV LKKVKHRLVE NMSSGTADAL GLSRAILCND GLVKRLEELE RTAELYKGMT EHTKNLLRAF YELSQTTHRAF GDVFSVIGVR EPQPAASEAF VKFADAHRSI EKFGIRLLKT IKPMLTDLNT YLNKAIPDTR LTIKKYLDVK FEYLSYCLKV KEMDDEEYSC IALGEPLYRV STGNYEYRLI LRCRQEARAR FSQMRKDVLE KMELLDQKHV QDIVFQLQRL VSTMSKYYND CYAVLRDADV FPIEVDLAHT TLAYGLNQEE FTDGEEEEEE EDTAAGEPSR DTRGAAGPLD KGGSWCDS Molecular weight: 49.0 kDa (438aa) confirmed by MALDI-TOF
Storage:	Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer. Avoid repeated freezing and thawing. Shelf life: one year from despatch.
General Readings:	1. Shao X, Zhu L, Wang Y, Lu Y, Wang W, Zhu J, et al. Threonine 82 at the PDZ domain of PICK1 is critical for AMPA receptor interaction and localization. <i>Neurochem Int.</i> 2010 Jul;56(8):962-70. doi: 10.1016/j.neuint.2010.04.006. Epub 2010 Apr 18. PubMed PMID: 20403402.

Pictures:

