

**KPNA2, 1-529aa, Human, His tag, E.coli**

**Cat.NO.: TP02759**

3th Edition

**Synonyms:**Importin subunit alpha-2, IPOA1, QIP2, SRP1alpha.

**Description:**Karyopherin alpha2 (KPNA2) is a member of the karyopherin alpha family. This protein plays a key role in the nuclear import of proteins with a classical nuclear localization signal (NLS). KPNA2 bound in vitro specifically and directly to substrates containing either a simple or bipartite NLS motif. It promoted docking of import substrates to the nuclear envelope and together with recombinant human Ran reconstituted complete nuclear protein import.

**Form:**Liquid. 20mM Tris-HCl buffer (pH8.0) containing 20% glycerol, 1mM DTT

**Molecular Weight:**60.5 kDa (553aa)

**Sequences:**

MGSSHHHHHSSGLVPRGSHMGSHMSTNENANTPAARLHRFKNKGKDSTEMRRRRRIEVNVELRKAKKDDQMLK  
RRNVSSFPDDATSPLQENRNNQGTVNWSVDDIVKGINSSNVENQLQATQAARKLLSREKQPPIDNIIRAGLIPKFVS  
FLGRDTCSPIQFESAWALTNIASGTSEQTKVVVDGGAIPAFISLLASPHAHISEQAVWALGNIAGDGSVFRDLVIKYG  
AVDPLLALLAVPDMSSLACGYLRNLTWTLNLCRNKNPAPPIDAVEQILPTLVRLHHDDPEVLADTCWAI SYLTDGP  
NERIGMVVKTGVVPQLVKLLGASELPIVTPALRAIGNIVTGTDEQTQVVIDAGALAVFPSLLTNPKTNIQKEATWTMS  
NITAGRQDQIQVNHGLVPFLVSVLSKADFKTQKEAVWAVTNYTSGGTVEQIVYLVHCGIIEPLMNLITAKDTKIILV  
ILDAISNIFQAAENLGETEKL SIMIEECGGLDKIEALQNHENESVYKASLSLIEKYFSVEEEEDQNVVPETTSEGYTFQ  
VQDGAPGTFNF

**Purity:**> 95% by HPLC

**Concentration:**1 mg/ml (determined by Bradford assay)

**Endotoxin Level:**<1.0 EU per 1 ug of protein (determined by LAL method)

**Storage:**Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.