

## Recombinant Mouse Kpna2 Protein, MYC/DDK-tagged

**Cat. No.** Kpna2-1279M    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Purified recombinant protein of full-length mouse karyopherin (importin) alpha 2 (cDNA clone MGC:91246 IMAGE:6334979), complete cds, with C-terminal MYC/DDK tag, was expressed in HEK293T cells.
<b>Species</b>	Mouse
<b>Source</b>	HEK293
<b>Description</b>	Functions in nuclear protein import as an adapter protein for nuclear receptor KPNB1. Binds specifically and directly to substrates containing either a simple or bipartite NLS motif. Docking of the importin/substrate complex to the nuclear pore complex (NPC) is mediated by KPNB1 through binding to nucleoporin FxFG repeats and the complex is subsequently translocated through the pore by an energy requiring, Ran-dependent mechanism. At the nucleoplasmic side of the NPC, Ran binds to importin-beta and the three components separate and importin-alpha and -beta are re-exported from the nucleus to the cytoplasm where GTP hydrolysis releases Ran from importin. The directionality of nuclear import is thought to be conferred by an asymmetric distribution of the GTP- and GDP-bound forms of Ran between the cytoplasm and nucleus.
<b>Molecular Mass</b>	48 kDa
<b>Purity</b>	>80% as determined by SDS-PAGE and Coomassie blue staining
<b>Stability</b>	Stable for 12 months from the date of receipt of the product under proper storage and

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handling conditions. Avoid repeated freeze-thaw cycles.

**Storage** Store at -80 centigrade after receiving vials.

**Concentration** >50 g/mL as determined by microplate BCA method

**Storage Buffer** 25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

## GENE INFORMATION

**Gene Name** [Kpna2 karyopherin \(importin\) alpha 2 \[ Mus musculus \(house mouse\) \]](#)

**Official Symbol** [Kpna2](#)

**Synonyms** Kpna2; karyopherin (importin) alpha 2; Rch1; IPOA1; PTAC58; 2410044B12Rik; importin subunit alpha-1; RAG cohort protein 1; SRP1-alpha; importin alpha 1; importin alpha P1; importin subunit alpha-2; karyopherin subunit alpha-2; m-importin-alpha-P1; pendulin; pore targeting complex 58 kDa subunit

**Gene ID** [16647](#)

**mRNA Refseq** [NM\\_010655](#)

**Protein Refseq** [NP\\_034785](#)

**UniProt ID** [P52293](#)

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