

# Product datasheet for TP720560XL

# KPNA2 (NM\_002266) Human Recombinant Protein

## **Product data:**

#### **Product Type: Recombinant Proteins Description:** Recombinant protein of human karyopherin alpha 2 (RAG cohort 1, importin alpha 1) (KPNA2) Species: Human **Expression Host:** E. coli **Expression cDNA Clone** Met1-Phe529 or AA Sequence: N-His Tag: **Predicted MW:** 60.0 kDa **Concentration:** lot specific **Purity:** >95% as determined by SDS-PAGE and Coomassie blue staining **Buffer:** Provided lyophilized from a 0.2 µm filtered solution of 20 mM Tris-HCl, 150 mM NaCl Endotoxin: < 0.1 EU per µg protein as determined by LAL test Store at -80°C. Storage: Stable for at least 6 months from date of receipt under proper storage and handling Stability: conditions. NP 002257 **RefSeq:** Locus ID: 3838 **UniProt ID:** P52292 Cytogenetics: 17q24.2 Synonyms: IPOA1; QIP2; RCH1; SRP1-alpha; SRP1alpha



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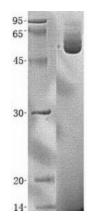
9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn

### **GRIGENE** KPNA2 (NM\_002266) Human Recombinant Protein – TP720560XL

Summary: The import of proteins into the nucleus is a process that involves at least 2 steps. The first is an energy-independent docking of the protein to the nuclear envelope and the second is an energy-dependent translocation through the nuclear pore complex. Imported proteins require a nuclear localization sequence (NLS) which generally consists of a short region of basic amino acids or 2 such regions spaced about 10 amino acids apart. Proteins involved in the first step of nuclear import have been identified in different systems. These include the Xenopus protein importin and its yeast homolog, SRP1 (a suppressor of certain temperaturesensitive mutations of RNA polymerase I in Saccharomyces cerevisiae), which bind to the NLS. KPNA2 protein interacts with the NLSs of DNA helicase Q1 and SV40 T antigen and may be involved in the nuclear transport of proteins. KPNA2 also may play a role in V(D)J recombination. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Feb 2016]

Protein Families: Druggable Genome, Stem cell - Pluripotency

### **Product images:**



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