

## karyopherin alpha 2 antibody

Catalog No: #22844

Orders: order@signalwayantibody.com

Support: tech@signalwayantibody.com

## Description

|                       |  |
|-----------------------|--|
| Product Name          | karyopherin alpha 2 antibody   |
| Host Species          | Rabbit   |
| Clonality             | Polyclonal   |
| Purification          | Purified by antigen-affinity chromatography.   |
| Applications          | WB IF  |
| Species Reactivity    | Hu   |
| Immunogen Type        | Peptide  |
| Immunogen Description | Synthetic peptide contain a sequence corresponding to a region within amino acids 468 and 529 of karyopherin alpha 2 |
| Target Name           | karyopherin alpha 2  |
| Other Names           | QIP2; RCH1; IPOA1; SRP1alpha   |
| Accession No.         | Swiss-Prot:P52292Gene ID:3838  |
| Uniprot               | P52292   |
| GeneID                | 3838;  |
| Concentration         | 0.7mg/ml   |
| Formulation           | Supplied in 0.1M Tris-buffered saline with 10% Glycerol (pH7.0). 0.01% Thimerosal was added as a preservative.       |
| Storage               | Store at -20°C for long term preservation (recommended). Store at 4°C for short term use.                            |

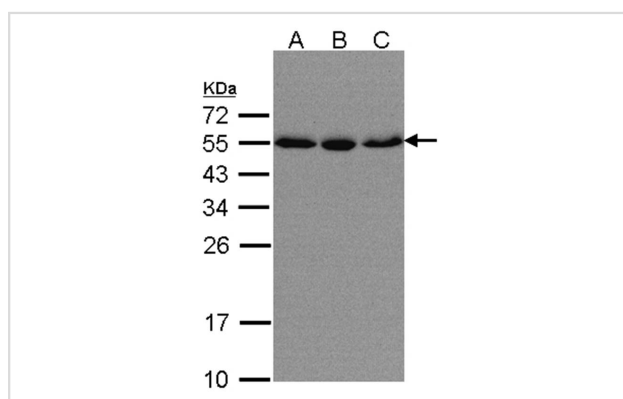
## Application Details

Predicted MW: 58kd

Western blotting: 1:500-1:3000

Immunofluorescence: 1:100-1:200

## Images



Sample(30 ug of whole cell lysate)

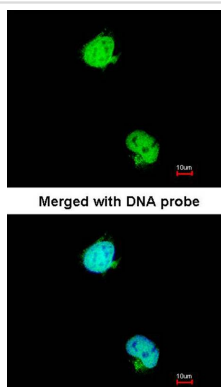
A: HeLa S3

B: Hep G2

C: MOLT4

10% SDS PAGE

Primary antibody diluted at 1: 500



Immunofluorescence analysis of paraformaldehyde-fixed HeLa, using karyopherin alpha 2 antibody at 1: 200 dilution.

## Background

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 temperature-sensitive 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 [provided by RefSeq]

Note: This product is for in vitro research use only