

Datasheet for ABIN3022267

## anti-KPNA2 antibody (AA 1-290)



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1 Publication

### Overview

Quantity:	100 µL
Target:	KPNA2
Binding Specificity:	AA 1-290
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This KPNA2 antibody is un-conjugated
Application:	Western Blotting (WB), Immunoprecipitation (IP)

### Product Details

Immunogen:	Recombinant fusion protein containing a sequence corresponding to amino acids 1-290 of human KPNA2 (NP_002257.1).
Sequence:	MSTNENANTP AARLHRFKNK GKDSTEMRRR RIEVNVELRK AKKDDQMLKR RNVSSFPDDA TSPLQENRNN QGTVNWSVDD IVKGINSSNV ENQLQATQAA RKLLSREKQP PIDNIIRAGL IPKFVSFLGR TDCSPIQFES AWALTNIASG TSEQTKAVVD GGAIPAFISL LASPHAHISE QAVWALGNIA GDGSVFRDLV IKYGAVDPLL ALLAVPDMSS LACGYLRNLT WTLSNLCRNK NPAPPIDAVE QILPTLVRLH HHDDPEVLAD TCWAISYLTG GPNERIGMVV
Isotype:	IgG
Cross-Reactivity:	Human, Mouse
Characteristics:	Polyclonal Antibodies

## Target Details

Target:	KPNA2
Alternative Name:	KPNA2 ( <a href="#">KPNA2 Products</a> )
Background:	<p>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 <i>Saccharomyces cerevisiae</i>), 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.,KPNA2,IPOA1,QIP2,RCH1,SRP1-alpha,SRP1alpha,Signal Transduction,Immunology &amp; Inflammation,KPNA2</p>
Molecular Weight:	57 kDa
Gene ID:	3838
UniProt:	<a href="#">P52292</a>
Pathways:	<a href="#">M Phase</a> , <a href="#">Protein targeting to Nucleus</a>

## Application Details

Application Notes:	WB,1:500 - 1:2000,IP,1:50 - 1:100
Restrictions:	For Research Use only

## Handling

Format:	Liquid
Buffer:	PBS with 0.02 % sodium azide,50 % glycerol, pH 7.3.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid freeze / thaw cycles
Storage:	-20 °C

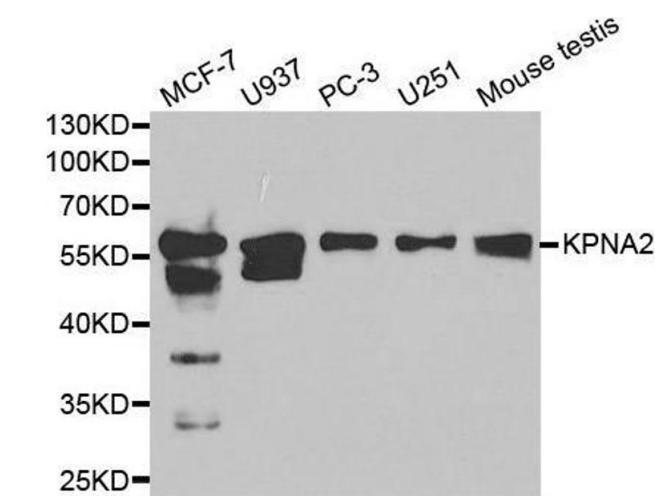
Handling

Storage Comment: Store at -20°C. Avoid freeze / thaw cycles.

Publications

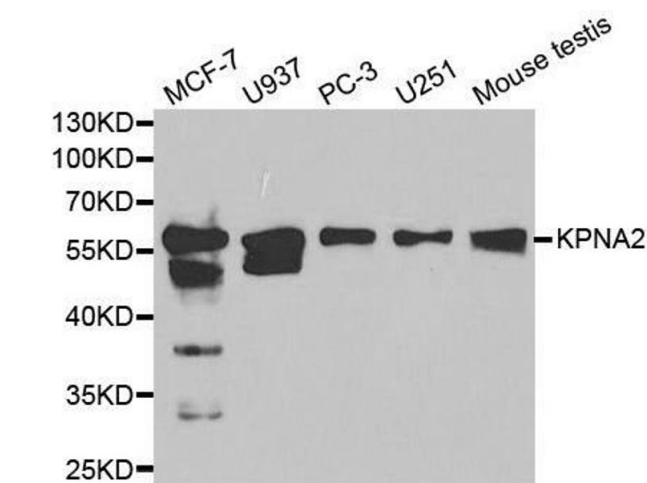
Product cited in: Xue, Zhang, Wang, Zhang, Xiang, Wang, Wang, Li, Zhang, Zou, Wang, Wu, Lu, Chen, Ding, Li, Xu: "Benzoxazinone-containing 3,5-dimethylisoxazole derivatives as BET bromodomain inhibitors for treatment of castration-resistant prostate cancer." in: **European journal of medicinal chemistry**, Vol. 152, pp. 542-559, (2018) ([PubMed](#)).

Images



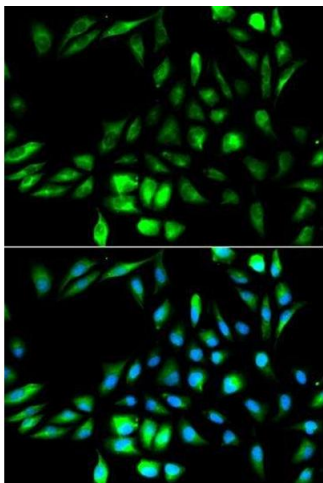
Western Blotting

**Image 1.** Western blot analysis of extracts of various cell lines, using KPNA2 antibody.



Western Blotting

**Image 2.** Western blot analysis of extracts of various cell lines, using KPNA2 antibody.



#### Immunofluorescence

**Image 3.** Immunofluorescence analysis of MCF-7 cells using KPNA2 antibody.