

Datasheet for ABIN968674

## anti-XPO1 antibody (AA 2-122)



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### Overview

Quantity:	50 µg
Target:	XPO1
Binding Specificity:	AA 2-122
Reactivity:	Human, Mouse, Rat, Dog, Chicken
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This XPO1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF)

### Product Details

Immunogen:	Human hCRM1 aa. 2-122
Clone:	17-Exportin
Isotype:	IgG1
Cross-Reactivity:	Chicken, Dog (Canine), Mouse (Murine), Rat (Rattus)
Characteristics:	<ol style="list-style-type: none"> <li>1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.</li> <li>2. Please refer to us for technical protocols.</li> <li>3. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.</li> <li>4. Source of all serum proteins is from USDA inspected abattoirs located in the United States.</li> </ol>
Purification:	The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity

## Product Details

chromatography.

## Target Details

Target:	XP01
Alternative Name:	Exportin-1 ( <a href="#">XP01 Products</a> )
Background:	<p>The nuclear pore complex (NPC) is a 125 MDa nuclear envelope complex that mediates nucleocytoplasmic shuttling of RNA and protein. NPC is comprised of more than 30 different proteins, including Ran/TC4, importins, and exportins . Exportin-1(hCRM1/XP01) is the widely expressed human homologue of the yeast CRM1 protein, which functions in the maintenance of chromatin structure and nuclear export. Exportin-1 has an N-terminal CRIME domain that is homologous to yeast CRM1 and importin-beta. Intracellular localization of Exportin-1 shows association with the NPC and overexpression of Exportin-1 in Xenopus oocytes stimulates Rev and U snRNA export from the nucleus. Exportin-1 also binds other nuclear transport related proteins, such as RanGTP, snurportin-1, and the nucleoporins CAN/Nup214 and Nup50. Overexpression of CAN leads to sequestration of Exportin-1 in the nucleoplasm, which inhibits cell growth and induces apoptosis. In addition, Exportin-1 may export specific proteins, such as Rev and PKI, via binding to a leucine-rich nuclear export signal (NES). Thus, Exportin-1 is an important protein and RNA nuclear export receptor, which may be required for normal cell growth and survival. This antibody is routinely tested by western blot analysis.</p> <p>Synonyms: CRM1</p>
Molecular Weight:	112 kDa
Pathways:	<a href="#">M Phase</a>

## Application Details

Comment:	Related Products: ABIN968553, ABIN967389
Restrictions:	For Research Use only

## Handling

Format:	Liquid
Concentration:	250 µg/mL
Buffer:	Aqueous buffered solution containing BSA, glycerol, and ≤0.09 % sodium azide.
Preservative:	Sodium azide

## Handling

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Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

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Storage: -20 °C

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Storage Comment: Store undiluted at -20° C.

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## Publications

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Product cited in: Kamura, Hara, Matsumoto, Ishida, Okumura, Hatakeyama, Yoshida, Nakayama, Nakayama: "Cytoplasmic ubiquitin ligase KPC regulates proteolysis of p27(Kip1) at G1 phase." in: **Nature cell biology**, Vol. 6, Issue 12, pp. 1229-35, (2004) ([PubMed](#)).

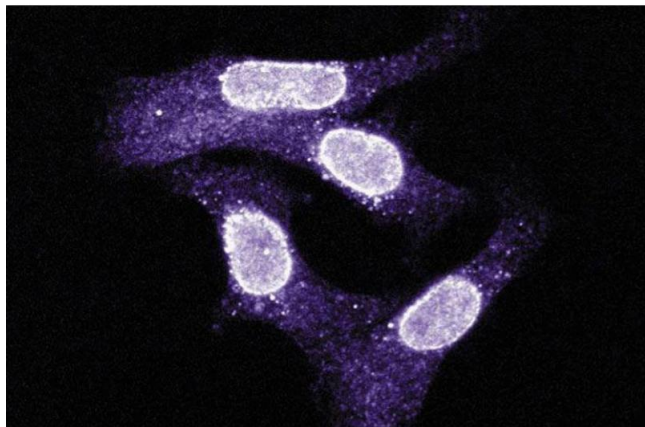
Ishida, Hara, Kamura, Yoshida, Nakayama, Nakayama: "Phosphorylation of p27Kip1 on serine 10 is required for its binding to CRM1 and nuclear export." in: **The Journal of biological chemistry**, Vol. 277, Issue 17, pp. 14355-8, (2002) ([PubMed](#)).

Massenet, Pellizzoni, Paushkin, Mattaj, Dreyfuss: "The SMN complex is associated with snRNPs throughout their cytoplasmic assembly pathway." in: **Molecular and cellular biology**, Vol. 22, Issue 18, pp. 6533-41, (2002) ([PubMed](#)).

Paraskeva, Izaurralde, Bischoff, Huber, Kutay, Hartmann, Lührmann, Görlich: "CRM1-mediated recycling of snurportin 1 to the cytoplasm." in: **The Journal of cell biology**, Vol. 145, Issue 2, pp. 255-64, (1999) ([PubMed](#)).

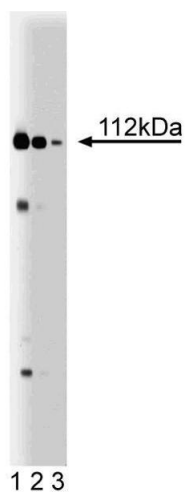
Boer, Bonten-Surtel, Grosveld: "Overexpression of the nucleoporin CAN/NUP214 induces growth arrest, nucleocytoplasmic transport defects, and apoptosis." in: **Molecular and cellular biology**, Vol. 18, Issue 3, pp. 1236-47, (1998) ([PubMed](#)).

There are more publications referencing this product on: [Product page](#)



#### Immunofluorescence

**Image 1.** Immunofluorescent staining on SK-BR3 cells.



#### Western Blotting

**Image 2.** Western blot analysis of Exportin-1 on WI-38 lysate. Lane 1: 1:1000, lane 2: 1:2000, lane 3: 1:4000 dilution of anti-Exportin-1 antibody.