

ARG59231 anti-XPO1 / CRM1 antibody

Package: 50 µg
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes XPO1 / CRM1
Tested Reactivity	Hu, Ms, Rat
Tested Application	FACS, ICC/IF, IHC-Fr, IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	XPO1 / CRM1
Species	Human
Immunogen	Recombinant protein corresponding to N966-D1071 of Human CRM1.
Conjugation	Un-conjugated
Alternate Names	CRM1; Exportin-1; exp1; emb; Chromosome region maintenance 1 protein homolog; Exp1

Application Instructions

Application table	Application	Dilution
	FACS	1:150 - 1:500
	ICC/IF	1:200 - 1:1000
	IHC-Fr	0.5 - 1 µg/ml
	IHC-P	0.5 - 1 µg/ml
	WB	0.1 - 0.5 µg/ml

Application Note IHC-P: Antigen Retrieval: By heat mediation.
* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Properties

Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	0.9% NaCl, 0.2% Na ₂ HPO ₄ , 0.05% Sodium azide and 5% BSA.
Preservative	0.05% Sodium azide
Stabilizer	5% BSA
Concentration	0.5 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated

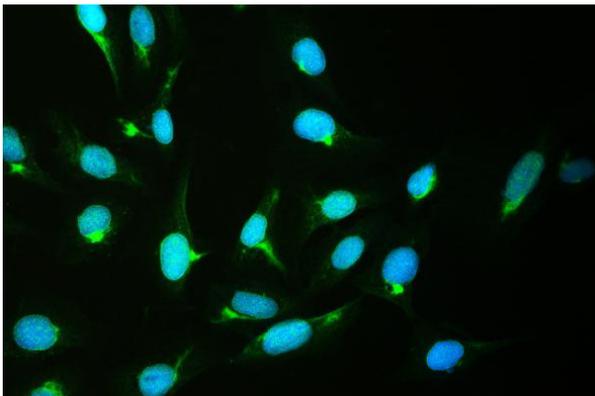
freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Note For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

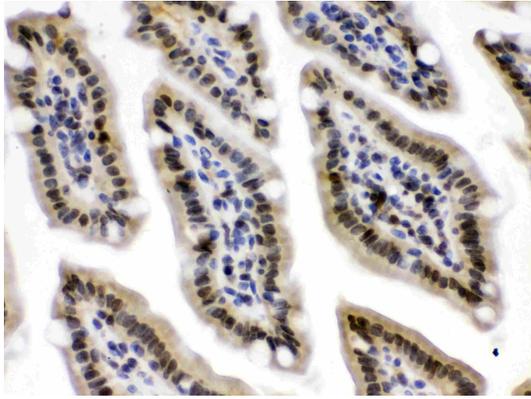
Gene Symbol	XPO1
Gene Full Name	exportin 1
Background	This cell-cycle-regulated gene encodes a protein that mediates leucine-rich nuclear export signal (NES)-dependent protein transport. The protein specifically inhibits the nuclear export of Rev and U snRNAs. It is involved in the control of several cellular processes by controlling the localization of cyclin B, MPAK, and MAPKAP kinase 2. This protein also regulates NFAT and AP-1. [provided by RefSeq, Jan 2015]
Function	Mediates the nuclear export of cellular proteins (cargos) bearing a leucine-rich nuclear export signal (NES) and of RNAs. In the nucleus, in association with RANBP3, binds cooperatively to the NES on its target protein and to the GTPase RAN in its active GTP-bound form (Ran-GTP). Docking of this complex to the nuclear pore complex (NPC) is mediated through binding to nucleoporins. Upon transit of a nuclear export complex into the cytoplasm, disassembling of the complex and hydrolysis of Ran-GTP to Ran-GDP (induced by RANBP1 and RANGAP1, respectively) cause release of the cargo from the export receptor. The directionality of nuclear export is thought to be conferred by an asymmetric distribution of the GTP- and GDP-bound forms of Ran between the cytoplasm and nucleus. Involved in U3 snoRNA transport from Cajal bodies to nucleoli. Binds to late precursor U3 snoRNA bearing a TMG cap. Several viruses, among them HIV-1, HTLV-1 and influenza A use it to export their unspliced or incompletely spliced RNAs out of the nucleus. Interacts with, and mediates the nuclear export of HIV-1 Rev and HTLV-1 Rex proteins. Involved in HTLV-1 Rex multimerization. [UniProt]
Calculated Mw	123 kDa
Cellular Localization	Cytoplasm. Nucleus, nucleoplasm. Nucleus, Cajal body. Nucleus, nucleolus. Note=Located in the nucleoplasm, Cajal bodies and nucleoli. Shuttles between the nucleus/nucleolus and the cytoplasm. [UniProt]

Images



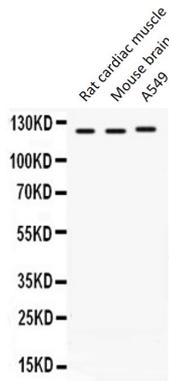
ARG59231 anti-XPO1 / CRM1 antibody ICC/IF image

Immunofluorescence: U2OS cells were blocked with 10% goat serum and then stained with ARG59231 anti-XPO1 / CRM1 antibody (green) at 2 µg/ml dilution, overnight at 4°C. DAPI (blue) for nuclear staining.



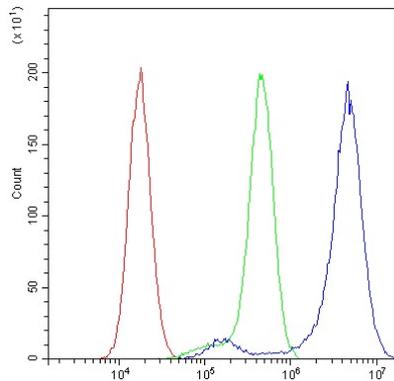
ARG59231 anti-XPO1 / CRM1 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Mouse intestine stained with ARG59231 anti-XPO1 / CRM1 antibody at 1 $\mu\text{g}/\text{ml}$ dilution.



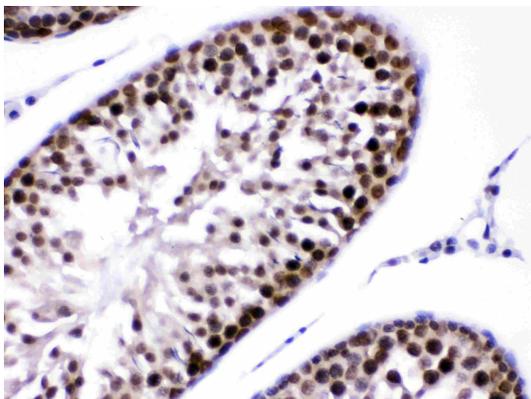
ARG59231 anti-XPO1 / CRM1 antibody WB image

Western blot: Rat cardiac muscle, Mouse brain and A549 whole cell lysate stained with ARG59231 anti-XPO1 / CRM1 antibody at 0.5 $\mu\text{g}/\text{ml}$ dilution.



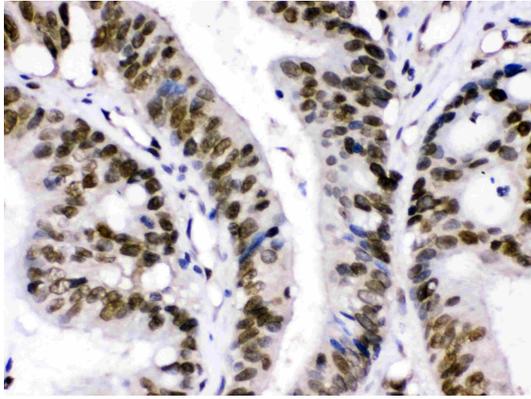
ARG59231 anti-XPO1 / CRM1 antibody FACS image

Flow Cytometry: U87 cells were blocked with 10% normal goat serum and then stained with ARG59231 anti-XPO1 / CRM1 antibody (blue) at 1 $\mu\text{g}/10^6$ cells for 30 min at 20°C, followed by incubation with DyLight[®]488 labelled secondary antibody. Isotype control antibody (green) was rabbit IgG (1 $\mu\text{g}/10^6$ cells) used under the same conditions. Unlabelled sample (red) was also used as a control.



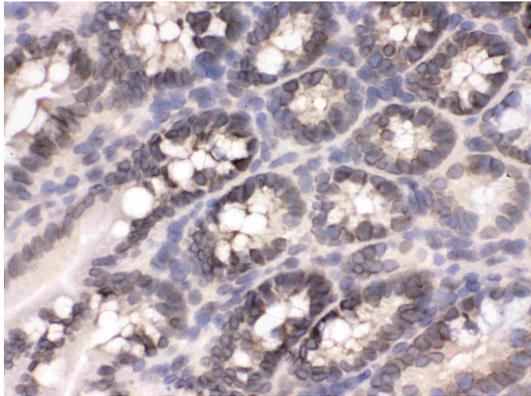
ARG59231 anti-XPO1 / CRM1 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Rat testis stained with ARG59231 anti-XPO1 / CRM1 antibody at 1 $\mu\text{g}/\text{ml}$ dilution.



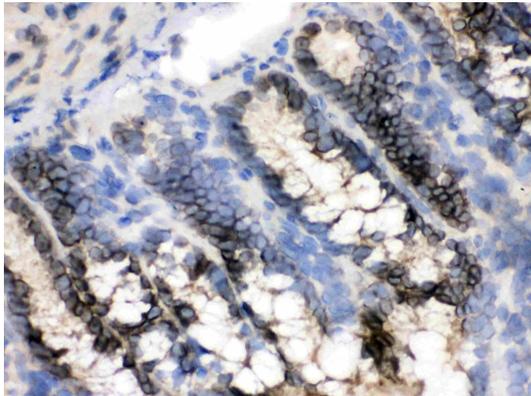
ARG59231 anti-XPO1 / CRM1 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human intestinal cancer stained with ARG59231 anti-XPO1 / CRM1 antibody at 1 $\mu\text{g/ml}$ dilution.



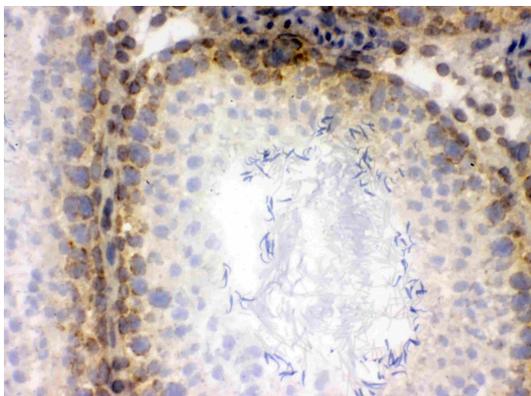
ARG59231 anti-XPO1 / CRM1 antibody IHC-Fr image

Immunohistochemistry: Frozen section of Mouse intestine tissue. The tissue section was blocked with 10% goat serum. The tissue section was then stained with ARG59231 anti-XPO1 / CRM1 antibody at 1 $\mu\text{g/ml}$, overnight at 4°C.



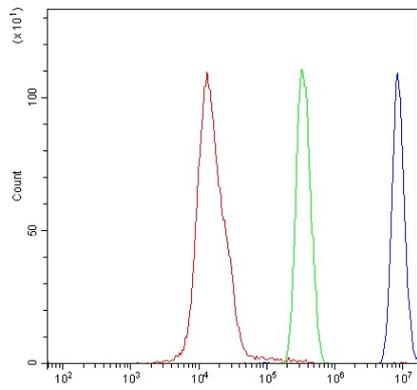
ARG59231 anti-XPO1 / CRM1 antibody IHC-Fr image

Immunohistochemistry: Frozen section of Rat intestine tissue. The tissue section was blocked with 10% goat serum. The tissue section was then stained with ARG59231 anti-XPO1 / CRM1 antibody at 1 $\mu\text{g/ml}$, overnight at 4°C.



ARG59231 anti-XPO1 / CRM1 antibody IHC-Fr image

Immunohistochemistry: Frozen section of Rat testis tissue. The tissue section was blocked with 10% goat serum. The tissue section was then stained with ARG59231 anti-XPO1 / CRM1 antibody at 1 $\mu\text{g/ml}$, overnight at 4°C.



ARG59231 anti-XPO1 / CRM1 antibody FACS image

Flow Cytometry: SiHa cells were blocked with 10% normal goat serum and then stained with ARG59231 anti-XPO1 / CRM1 antibody (blue) at 1 µg/10⁶ cells for 30 min at 20°C, followed by incubation with DyLight[®]488 labelled secondary antibody. Isotype control antibody (green) was rabbit IgG (1 µg/10⁶ cells) used under the same conditions. Unlabelled sample (red) was also used as a control.