Rabbit CRM1 Polyclonal Antibody | anti-XPO1 antibody

Anti-CRM1 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA11673	**Rabbit**	**Human, Mouse, RatNo cross reactivity with other proteins.**	**Western Blot, Immunohistochemistry**

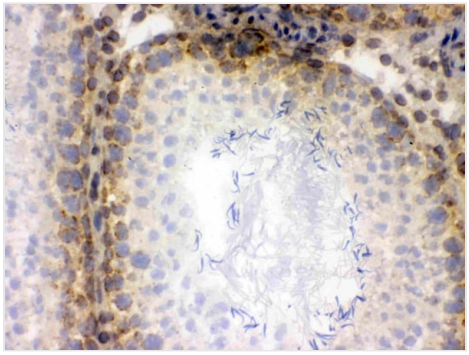
PRODUCT SYNONYMS

CRM1; Polyclonal Antibody; Anti-CRM1 Antibody; CRM 1; emb; Exp 1; Exp1; Exportin1; Exportin-1; Exportin 1; XPO1; XPO 1; O14980; exportin 1; anti-XPO1 antibody

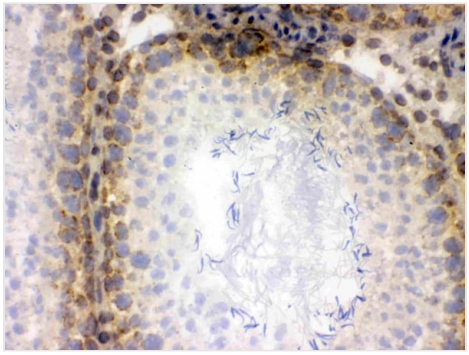
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat No cross reactivity with other proteins.
Clonality	Polyclonal
Isotype	IgG
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized
Sequence Length	1071
Applicable Applications for anti-XPO1 antibody	WB (Western Blot), IHC (Immunohistochemistry)
Application Notes	Western Blot: 0.1-0.5mug/ml; Tested Species: Human, Mouse, Rat Immunohistochemisry Paraffin: 0.5-1mug/ml; Tested Species: Human, Mouse, Rat **Tested Species:**In-house tested species with positive results. By Heat: Boiling the paraffin sections in 10mM citrate buffer, pH6.0, for 20mins is required for the staining of formalin/paraffin sections. Other applications have not been tested.
Immunogen	E Coli-derived human CRM1 recombinant protein (Position: N966-D1071). Human CRM1 shares 93.4% and 91.5% amino acid (aa) sequence identity with mouse and rat CRM1, respectively.
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Preparation and Storage	At -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.

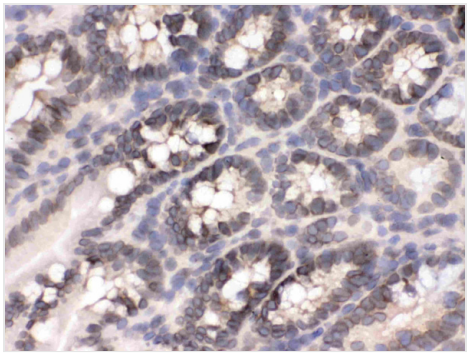
IMAGES



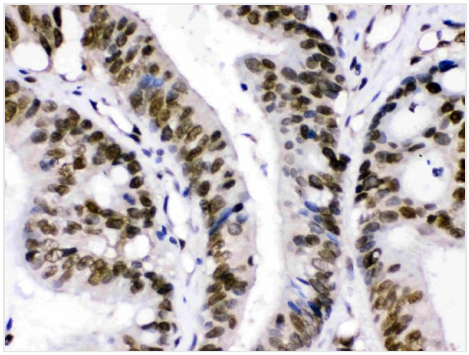
IHC (Immunohistochemistry)
Figure 7. IHC analysis of CRM1 using anti-CRM1 antibody (AAA11673).CRM1 was detected in frozen section of rat testis tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-CRM1 Antibody (AAA11673) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Strepavidin-Biotin-Complex (SABC) with DAB as the chromogen.



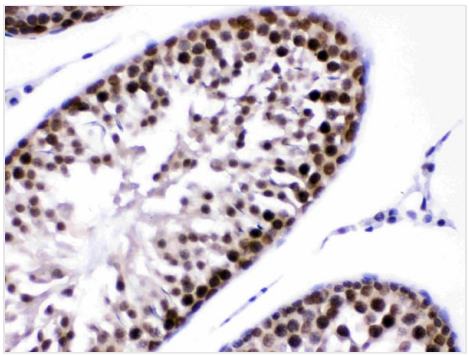
IHC (Immunohistchemistry)
Figure 6. IHC analysis of CRM1 using anti-CRM1 antibody (AAA11673).CRM1 was detected in frozen section of rat intestine tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-CRM1 Antibody (AAA11673) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Strepavidin-Biotin-Complex (SABC) with DAB as the chromogen.



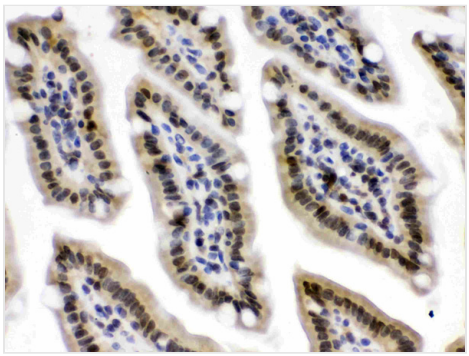
IHC (Immunohistochemistry)
Figure 5. IHC analysis of CRM1 using anti-CRM1 antibody (AAA11673).CRM1 was detected in frozen section of mouse intestine tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-CRM1 Antibody (AAA11673) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Strepavidin-Biotin-Complex (SABC) with DAB as the chromogen.



IHC (Immunohistochemistry)
CRM1 was detected in paraffin-embedded sections of human intestinal cancer tissues using rabbit anti- CRM1 Antigen Affinity purified polyclonal antibody at 1ug/mL. The immunohistochemical section was developed using SABC method.



IHC (Immunohistochemistry)
CRM1 was detected in paraffin-embedded sections of rat testis tissues using rabbit anti-CRM1 Antigen Affinity purified polyclonal antibody at 1ug/mL. The immunohistochemical section was developed using SABC method.



IHC (Immunohistochemistry)
CRM1 was detected in paraffin-embedded sections of mouse intestine tissues using rabbit anti- CRM1 Antigen Affinity purified polyclonal antibody at 1ug/mL. The immunohistochemical section was developed using SABC method.

ADDITIONAL INFORMATION

Related Product Information for anti-XPO1 antibody	Rabbit IgG polyclonal antibody for Exportin-1 (XPO1) detection. Background: Exportin 1 (XPO1), also known as chromosomal maintenance 1 (CRM1), is an eukaryotic protein that mapped to human chromosome 2p16 by fluorescence in situ hybridization. This protein mediates leucine-rich nuclear export signal (NES)-dependent protein transport. It specifically inhibits the nuclear export of Rev and U snRNAs. Additionally, this protein is involved in the control of several cellular processes by controlling the localization of cyclin B, MPAK, and MAPKAP kinase 2. It also regulates NFAT and AP-1.
References	1. Dong, X., Biswas, A., Suel, K. E., Jackson, L. K., Martinez, R., Gu, H., Chook, Y. M. Structural basis for leucine-rich nuclear export signal recognition by CRM1. Nature 458: 1136-1141, 2009. Note: Erratum: Nature 461: 550 only, 2009. 2. Fornerod, M., van Baal, S., Valentine, V., Shapiro, D. N., Grosveld, G. Chromosomal localization of genes encoding CAN/Nup214-interacting proteins--human CRM1 localizes to 2p16, whereas Nup88 localizes to 17p13 and is physically linked to SF2p32. Genomics 42: 538-540, 1997. 3. Kudo, N., Khochbin, S., Nishi, K., Kitano, K., Yanagida, M., Yoshida, M., Horinouchi, S. Molecular cloning and cell cycle-dependent expression of mammalian CRM1, a protein involved in nuclear export of proteins. J. Biol. Chem. 272: 29742-29751, 1997.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4507943
NCBI GeneID	7514
NCBI Accession #	NP_003391.1
NCBI GenBank Nucleotide #	NM_003400.3
UniProt Accession #	O14980; Q63HP8; Q68CP3; Q99433; A6NL14; A8K1K5; D6W5E2
Molecular Weight	123,386 Da
NCBI Official Full Name	exportin-1
NCBI Official Synonym Full Names	exportin 1
NCBI Official Symbol	XPO1
NCBI Official Synonym Symbols	emb; CRM1; exp1
NCBI Protein Information	exportin-1
UniProt Protein Name	Exportin-1
UniProt Gene Name	**XPO1**
UniProt Synonym Gene Names	CRM1; Exp1
UniProt Entry Name	XPO1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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