

Product datasheet

Anti-CRM1 antibody [EPR14124] - C-terminal ab191081

Recombinant RabMAb

2 References 5 Images

Overview

Product name	Anti-CRM1 antibody [EPR14124] - C-terminal
Description	Rabbit monoclonal [EPR14124] to CRM1 - C-terminal
Host species	Rabbit
Tested applications	Suitable for: IHC-P, Flow Cyt, ICC/IF, WB
Species reactivity	Reacts with: Mouse, Rat, Human
Immunogen	Synthetic peptide (the amino acid sequence is considered to be commercially sensitive) within Human CRM1 aa 1000 to the C-terminus. The exact sequence is proprietary. Database link: O14980
Positive control	K562, HeLa, Jurkat, Ramos, C6, NIH 3T3 and PC12 cell lysates; Human bladder transitional cell carcinoma tissue; HeLa and K562 cells.

General notes

Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to [RabMAb[®] patents](#).

This product is a [recombinant rabbit monoclonal antibody](#).

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	Preservative: 0.01% Sodium azide Constituents: 40% Glycerol, 59% PBS, 0.05% BSA
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR14124
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab191081** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-P		1/50. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
Flow Cyt		1/160. ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.
ICC/IF		1/50.
WB		1/1000 - 1/20000. Detects a band of approximately 110 kDa (predicted molecular weight: 123 kDa).

Target

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 an 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.

Tissue specificity

Expressed in heart, brain, placenta, lung, liver, skeletal muscle, pancreas, spleen, thymus, prostate, testis, ovary, small intestine, colon and peripheral blood leukocytes. Not expressed in the kidney.

Sequence similarities

Belongs to the exportin family.
Contains 10 HEAT repeats.
Contains 1 importin N-terminal domain.

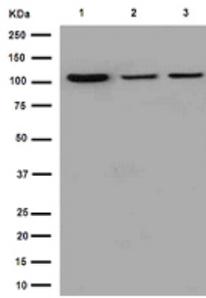
Post-translational modifications

Phosphorylated upon DNA damage, probably by ATM or ATR.

Cellular localization

Cytoplasm. Nucleus > nucleoplasm. Nucleus > Cajal body. Nucleus > nucleolus. Located in the nucleoplasm, Cajal bodies and nucleoli. Shuttles between the nucleus/nucleolus and the cytoplasm.

Images



Western blot - Anti-CRM1 [EPR14124] antibody - C-terminal (ab191081)

All lanes : Anti-CRM1 antibody [EPR14124] - C-terminal (ab191081) at 1/5000 dilution

Lane 1 : C6 cell lysate

Lane 2 : PC12 cell lysate

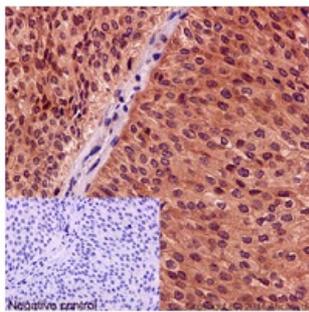
Lane 3 : NIH 3T3 cell lysate

Lysates/proteins at 10 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugate at 1/1000 dilution

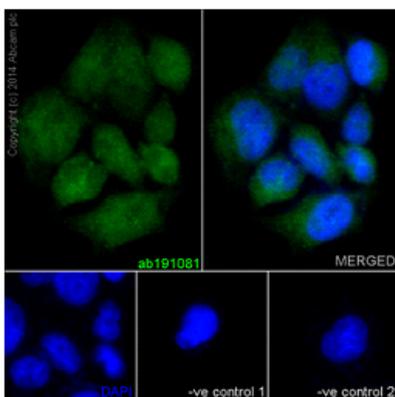
Predicted band size: 123 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CRM1 [EPR14124] antibody - C-terminal (ab191081)

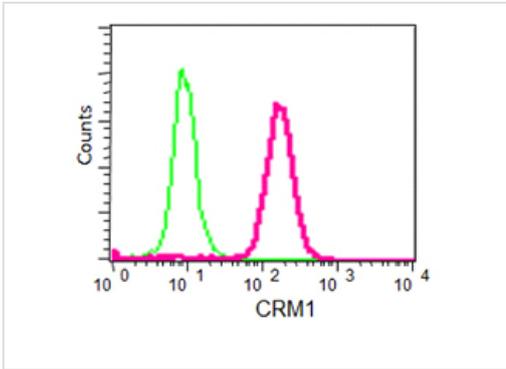
Immunohistochemical analysis of paraffin-embedded human bladder transitional cell carcinoma tissue labeling CRM1 with ab191081 at 1/50 dilution followed by pre-diluted HRP Polymer for Rabbit IgG secondary antibody and counter-stained with Hematoxylin (inset: negative control).

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



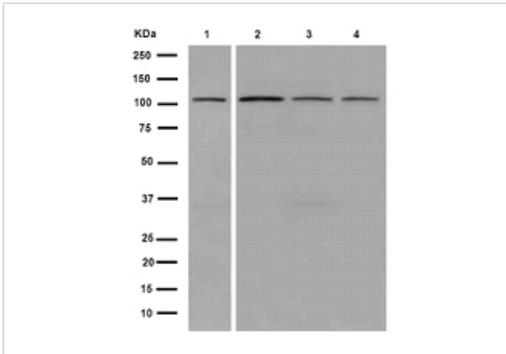
Immunocytochemistry/ Immunofluorescence - Anti-CRM1 [EPR14124] antibody - C-terminal (ab191081)

Immunofluorescent analysis of HeLa cells (4% Paraformaldehyde-fixed; 0.1% tritonX-100-permeabilized) labeling CRM1 with ab191081 at 1/50 dilution followed by Goat anti rabbit IgG (AlexaFluor® 488) secondary at 1/200 dilution and counter-stained with DAPI (blue).



Flow Cytometry - Anti-CRM1 [EPR14124] antibody - C-terminal (ab191081)

Flow cytometric analysis of K562 cells (paraformaldehyde-fixed, 2%) labeling CRM1 with ab191081 at 1/160 dilution (red) or a rabbit IgG (negative) (green), followed by Goat anti rabbit IgG (FITC) secondary at 1/150 dilution.



Western blot - Anti-CRM1 [EPR14124] antibody - C-terminal (ab191081)

All lanes : Anti-CRM1 antibody [EPR14124] - C-terminal (ab191081) at 1/20000 dilution

Lane 1 : K562 cell lysate

Lane 2 : HeLa cell lysate

Lane 3 : Jurkat cell lysate

Lane 4 : Ramos cell lysate

Lysates/proteins at 20 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugate at 1/1000 dilution

Predicted band size: 123 kDa

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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