

Anti-CRM1 antibody ab24189

★★★★★ [2 Abreviews](#) [22 References](#) [4 图像](#)

概述

产品名称	Anti-CRM1抗体
描述	兔多克隆抗体to CRM1
宿主	Rabbit
经测试应用	适用于: IHC-P, ICC/IF, WB
种属反应性	与反应: Human
免疫原	Synthetic peptide corresponding to Human CRM1 aa 1000 to the C-terminus conjugated to keyhole limpet haemocyanin. (Peptide available as ab25749)
阳性对照	ab24189 gave a positive result in HeLa whole cell lysate. This antibody also gave a positive signal in IHC in human hippocampus tissue sections.
常规说明	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

性能

形式	Liquid
存放说明	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
存储溶液	<p>pH: 7.40</p> <p>Preservative: 0.02% Sodium azide</p> <p>Constituent: PBS</p> <p>Batches of this product that have a concentration < 1mg/ml may have BSA added as a stabilising agent. If you would like information about the formulation of a specific lot, please contact our scientific support team who will be happy to help.</p>
纯度	Immunogen affinity purified

克隆

多克隆

同种型

IgG

应用

The Abpromise guarantee **Abpromise™**承诺保证使用ab24189于以下的经测试应用

“应用说明”部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
IHC-P		Use a concentration of 5 µg/ml. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.
ICC/IF	★★★★★ (1)	Use a concentration of 1 µg/ml.
WB	★★★★★ (1)	Use a concentration of 1 µg/ml. Detects a band of approximately 100 kDa (predicted molecular weight: 123 kDa). Abcam recommends using 3% milk as the blocking agent.

靶标

功能	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.
组织特异性	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.
序列相似性	Belongs to the exportin family. Contains 10 HEAT repeats. Contains 1 importin N-terminal domain.
翻译后修饰	Phosphorylated upon DNA damage, probably by ATM or ATR.
细胞定位	Cytoplasm. Nucleus > nucleoplasm. Nucleus > Cajal body. Nucleus > nucleolus. Located in the nucleoplasm, Cajal bodies and nucleoli. Shuttles between the nucleus/nucleolus and the cytoplasm.

图片



Western blot - Anti-CRM1 antibody (ab24189)

Anti-CRM1 antibody (ab24189) at 1 µg/ml + HeLa (Human epithelial carcinoma cell line) Whole Cell Lysate (**ab27252**) at 10 µg

Secondary

Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/10000 dilution

Developed using the ECL technique.

Performed under reducing conditions.

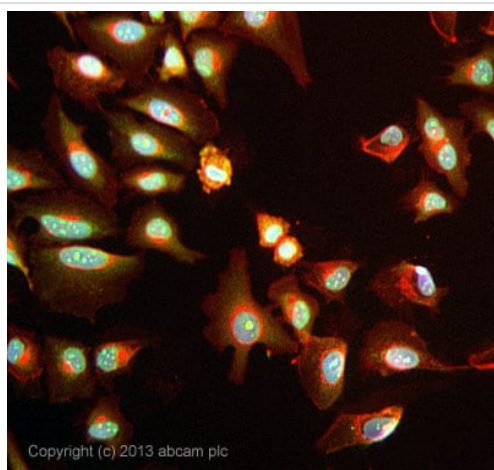
Predicted band size: 123 kDa

Observed band size: 120 kDa

Additional bands at: 73 kDa (possible non-specific binding)

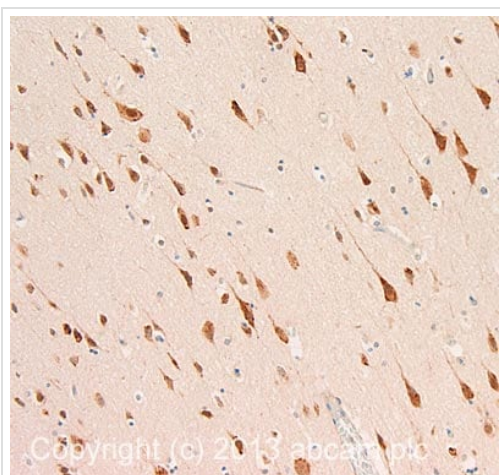
Exposure time: 90 seconds

This blot was produced using a 4-12% Bis-tris gel under the MOPS buffer system. The gel was run at 200V for 50 minutes before being transferred onto a Nitrocellulose membrane at 30V for 70 minutes. The membrane was then blocked for an hour using 3% milk before being incubated with ab24189 overnight at 4°C. Antibody binding was detected using an anti-rabbit antibody conjugated to HRP, and visualised using ECL development solution.



Immunocytochemistry/ Immunofluorescence - Anti-CRM1 antibody (ab24189)

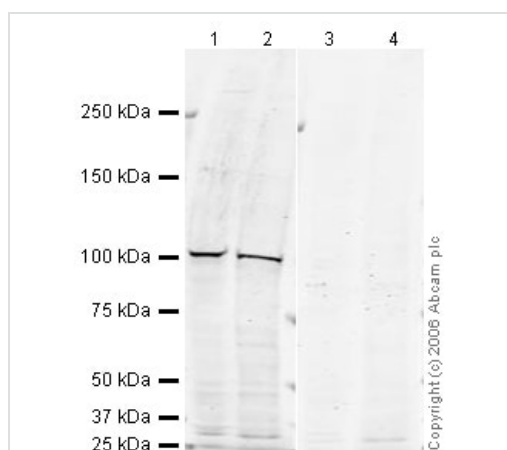
ICC/IF image of ab24189 stained HeLa cells. The cells were 100% methanol fixed (5 min) and then incubated in 1%BSA / 10% normal goat serum / 0.3M glycine in 0.1% PBS-Tween for 1h to permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody ab24189 at 1µg/ml overnight at +4°C. The secondary antibody (green) was DyLight® 488 goat anti- rabbit (**ab96899**) IgG (H+L) used at a 1/250 dilution for 1h. Alexa Fluor® 594 WGA was used to label plasma membranes (red) at a 1/200 dilution for 1h. DAPI was used to stain the cell nuclei (blue) at a concentration of 1.43µM.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CRM1 antibody (ab24189)

IHC image of CRM1 staining in Human normal hippocampus formalin fixed paraffin embedded tissue section, performed on a Leica Bond™ system using the standard protocol F. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH6, epitope retrieval solution 1) for 20 mins. The section was then incubated with ab24189, 5µg/ml, for 15 mins at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

For other IHC staining systems (automated and non-automated) customers should optimize variable parameters such as antigen retrieval conditions, primary antibody concentration and antibody incubation times.



Western blot - Anti-CRM1 antibody (ab24189)
This image is courtesy of an anonymous Abreview

All lanes : Anti-CRM1 antibody (ab24189) at 1 µg/ml

Lane 1 : HeLa whole cell lysate

Lane 2 : HeLa nuclear lysate

Lane 3 : HeLa whole cell lysate with Human CRM1 peptide ([ab25749](#)) at 1 µg/ml

Lane 4 : HeLa nuclear cell lysate with Human CRM1 peptide ([ab25749](#)) at 1 µg/ml

Lysates/proteins at 20 µg per lane.

Secondary

All lanes : Goat polyclonal to Rabbit IgG at 1/10000 dilution

Performed under reducing conditions.

Predicted band size: 123 kDa

Observed band size: 100 kDa

ab24189 detects a band of ~ 100 kDa in HeLa whole and HeLa nuclear cell lysates. This is somewhat smaller than the predicted band size according to Swissprot (123 kDa), however as both these bands are specifically blocked by the addition of the immunizing peptide ([ab25749](#)) we believe they represent CRM1.

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