

Mouse Anti-CRM1/Exportin-1 [C1]: MC0617, MC0617RTU7

Intended Use: For Research Use Only

Description: Protein transport across the nucleus is a selective, multistep process involving several cytoplasmic factors. Proteins must be recognized as import substrates, dock at the nuclear pore complex and translocate across the nuclear envelope in an ATP-dependent fashion. Chromosome region maintenance 1 (CRM1), also known as Exportin-1, is a protein essential for nuclear export of hundreds of proteins, mRNAs, and rRNAs. CRM1 has been shown to be an export receptor for leucine-rich proteins that contain the nuclear export signal (NES). These hydrophobic sequences form an alpha-helix-loop that can bind to the exportin-1 hydrophobic groove. Studies have shown that these NESs can be modified either by protein modifications or by mutation to regulate exportin-1 binding. Targets of CRM1 include many tumor suppressors, such as Rb, p53, FoxO1, BAF47, as well as oncoproteins, such as p21 and p27.

Specifications:

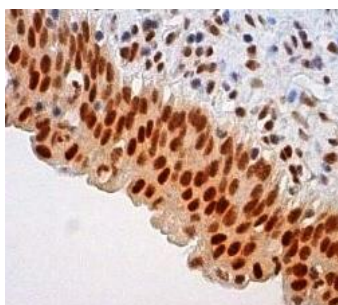
Clone: C1
 Source: Mouse
 Isotype: IgG1k
 Reactivity: Human, mouse, rat
 Immunogen: Human CRM1 peptide aa 772-1071
 Localization: Nucleus
 Formulation: Antibody in PBS pH7.4, containing BSA and $\leq 0.09\%$ sodium azide (NaN₃)
 Storage: Store at 2°- 8°C
 Applications: IHC, ELISA, ICC/IF, IP, WB
 Package:

Description	Catalog No.	Size
CRM1/Exportin-1 [C1] Concentrated	MC0617	1 ml
CRM1/Exportin-1 [C1] Prediluted	MC0617RTU7	7 ml

IHC Procedure*:

Positive Control Tissue: Bladder, bladder transitional cell carcinoma tissue
 Concentrated Dilution: 50-200
 Pretreatment: Tris EDTA pH9.0, 15 minutes Pressure Cooker or 30-60 minutes water bath at 95°-99°C
 Incubation Time and Temp: 30-60 minutes @ RT
 Detection: Refer to the detection system manual

* Result should be confirmed by an established diagnostic procedure.



FFPE human bladder tissue stained with anti-CRM1 using DAB

References:

1. Decrease of 5-hydroxymethylcytosine and TET1 with nuclear exclusion of TET2 in small intestinal neuroendocrine tumors. Barazeghi E et al. BMC Cancer 18:764, 2018.
2. Expression of the nuclear export protein chromosomal region maintenance/exportin 1/Xpo1 is a prognostic factor in human ovarian cancer. Aurelia Noske, et al. Cancer. Apr 15;112(8):1733-43, 2008.
3. Leucine-rich nuclear-export signals: born to be weak. Ulrike Kutay, et al. Trends Cell Biol. Mar;15(3):121-4, 2005.

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