Synaptic Systems

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Exportin 4

Cat.No. 215 011; Monoclonal mouse antibody, 100 µg purified IgG (lyophilized)

Data Sheet

Reconstitution/ Storage	100 µg purified IgG, lyophilized. Azide was added before lyophilization. For reconstitution add 100 µl H_2O to get a 1mg/ml solution in PBS. Then aliquot and store at -20°C until use.
Applications	**WB**: 1 : 1000 (ECL detection) **IP**: not tested yet **ICC**: not recommended **IHC**: not recommended **IHC-P/FFPE**: not recommended
Clone	183B1
Subtype	IgG2a (κ light chain)
Immunogen	Recombinant protein corresponding to AA 927 to 1151 from human Exportin4 (UniProt Id: Q9C0E2)
Epitop	Epitop: AA 927 to 1151 from human Exportin4 (UniProt Id: Q9C0E2)
Reactivity	Reacts with: human (Q9C0E2), rat, mouse (Q9ESJ0), monkey, ape. Other species not tested yet.
Specificity	Specific for exportin 4. (K.O. verified)

TO BE USED IN VITRO / FOR RESEARCH ONLY
NOT TOXIC, NOT HAZARDOUS, NOT INFECTIOUS, NOT CONTAGIOUS

Exportin 4, also referred to as **exp4** and **XPO4**, is a member of the importin β family comprising importins and exportins. These receptor proteins shuttle between the nucleus and the cytoplasm, interact with nuclear pore complexes and bind cargo molecules. Exportin 4 is highly conserved in higher euykaryotes and has been shown to mediate the nuclear export of eIF-5A (eukaryotic translation initiation factor 5A) and Smad 3.
In a recent screen for tumor suppressors an exportin 4 knock-down led to increased tumorigenesis. In addition re-expression of this protein in the exportin 4 deficient cell-line SK-Hep1 efficiently suppressed proliferation.

Selected General References

An oncogenomics-based in vivo RNAi screen identifies tumor suppressors in liver cancer.
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The mechanism of nuclear export of Smad3 involves exportin 4 and Ran.
Kurisaki A, Kurisaki K, Kowanetz M, Sugino H, Yoneda Y, Heldin CH, Moustakas A
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Exportin 4: a mediator of a novel nuclear export pathway in higher eukaryotes.
Lipowsky G, Bischoff FR, Schwarzmaier P, Kraft R, Kostka S, Hartmann E, Kutay U, Görlich D
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