

Exportin-2 Rabbit pAb

Catalog # AP99454

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	P55060
Other Accession	P55060
Reactivity	Rat, Human
Predicted	Mouse, Dog, Horse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	110417
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human CAS
Epitope Specificity	901-971/971
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the XPO2/CSE1 family. Contains 1 importin N-terminal domain.
SUBUNIT	Found in a complex with CSE1L/XPO2, Ran and KPNA2. Binds with high affinity to importin-alpha only in the presence of RanGTP. The complex is dissociated by the combined action of RanBP1 and RanGAP1.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Proteins that carry a nuclear localization signal (NLS) are transported into the nucleus by the importin-alpha/beta heterodimer. Importin-alpha binds the NLS, while importin-beta mediates translocation through the nuclear pore complex. After translocation, RanGTP binds importin-beta and displaces importin-alpha. Importin-alpha must then be returned to the cytoplasm, leaving the NLS protein behind. The protein encoded by this gene binds strongly to NLS-free importin-alpha, and this binding is released in the cytoplasm by the combined action of RANBP1 and RANGAP1. In addition, the encoded protein may play a role both in apoptosis and in cell proliferation. Alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Jan 2012].

Additional Information

Gene ID	1434
Other Names	CAS; CSE1; XPO2; 2610100P18Rik; Capts; XPO2_HUMAN; CSE1L; Exp2; Cellular apoptosis susceptibility protein; Chromosome segregation 1-like protein; Importin-alpha re-exporter; XPO2_MOUSE; chromosome segregation 1 like; chromosome segregation 1 (yeast homolog)-like; CSE1 chromosome segregation 1-like (yeast); CSE1 chromosome segregation 1 like; cellular apoptosis susceptibility

Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	CSE1L
Synonyms	CAS {ECO:0000303 PubMed:7479798}, XPO2
Function	Export receptor for importin-alpha. Mediates importin-alpha re-export from the nucleus to the cytoplasm after import substrates (cargos) have been released into the nucleoplasm. In the nucleus binds cooperatively to importin-alpha and to the GTPase Ran in its active GTP-bound form. Docking of this trimeric complex to the nuclear pore complex (NPC) is mediated through binding to nucleoporins. Upon transit of a 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 importin-alpha from the export receptor. CSE1L/XPO2 then return to the nuclear compartment and mediate another round of transport. 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.
Cellular Location	Cytoplasm. Nucleus. Note=Shuttles between the nucleus and the cytoplasm.
Tissue Location	Detected in brain, placenta, ovary, testis and trachea (at protein level) (PubMed:10331944). Widely expressed (PubMed:10331944). Highly expressed in testis and in proliferating cells (PubMed:10331944, PubMed:7479798).

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