

# **CAS Polyclonal Antibody**

Catalog # AP68824

#### **Product Information**

**Application** WB, IHC-P, IP, IF, ICC, E

Primary Accession P55060

Reactivity Human, Rat, Mouse

Host Rabbit
Clonality Polyclonal
Calculated MW 110417

#### **Additional Information**

Gene ID 1434

Other Names CSE1L; CAS; XPO2; Exportin-2; Exp2; Cellular apoptosis susceptibility protein;

Chromosome segregation 1-like protein; Importin-alpha re-exporter

**Dilution** WB~~Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300.

Immunoprecipitation: 2-5 ug/mg lysate. Immunofluorescence: 1/200 - 1/1000. ELISA: 1/40000. Not yet tested in other applications. IHC-P $\sim$ N/A IP $\sim$ N/A

IF~~1:50~200 ICC~~N/A E~~N/A

Format Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium

azide.

Storage Conditions -20°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

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

the importin-alpha from the export receptor. CSE1L/XPO2 then return to the

and nucleus.

**Cellular Location** Cytoplasm. Nucleus. Note=Shuttles between the nucleus and the cytoplasm.

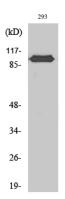
**Tissue Location** 

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).

## **Background**

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.

### **Images**



Western Blot analysis of various cells using CAS Polyclonal Antibody diluted at 1: 2000

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