Exportin-2 (EXP2) ELISA Kit for Human

PRODUCT OVERVIEW

Product Name	Exportin-2 (EXP2), ELISA Kit
Full Product Name	Human Exportin-2 (EXP2) ELISA Kit
Product Gene Name	EXP2 elisa kit
Product Synonym Names	Human Exportin-2 (CSE1L) ELISA kit; CAS; CSE1; MGC117283; MGC130036; MGC130037; XPO2; CSE1 chromosome segregation 1-like protein; cellular apoptosis susceptibility protein; chromosome segregation 1-like; importin-alpha re-exporter; CSE1 chromosome segregation 1-like (yeast)
Species Reactivity	Human
Assay Type	Quantitative Sandwich
Samples	Canine Body Fluids And Tissue Homogenates
Detection Range	0.25ng/ml-8ng/ml
Sensitivity	0.1ng/ml.
Specificity	No significant cross-reactivity or interference between this analyte and analogues is observed.
Preparation and Storage	Store all reagents at 2-8 degree C
Inter-assay Precision	Inter-assay CV (%) is less than 15%. [CV(%) = SD/mean ×100]. All CV% should be compared by concentration, not compared by OD values.
Intra-assay Precision	Intra-assay CV (%) is less than 15%
Molecular Weight	110,417 Da
OMIM	601342
3D Structure	ModBase 3D Structure for P55060
Related Product Information for EXP2 elisa kit	Background/Introduction: This Quantitative Sandwich ELISA kit is for lab reagent/research use only! This kit is intended to be used to determine the level of EXP2 (hereafter termed "analyte") in undiluted original Canine body fluids and tissue homogenates. This kit is NOT suitable for assaying non-biological sources of substances.
Other Notes	Small volumes of EXP2 elisa kit vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for EXP2 purchase	MBS9316513 is a ready-to-use microwell, strip plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Exportin-2 (EXP2) ELISA Kit target analytes in biological samples. The concentration gradients of the kit standards or positive controls render a theoretical kit detection range in biological research samples containing EXP2. The ELISA analytical biochemical technique of the MBS9316513 kit is based on EXP2 antibody-EXP2 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect EXP2 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, EXP2. Appropriate sample types may include undiluted body fluids and/or tissue homogenates, secretions. Quality control assays assessing reproducibility identified the intra-assay CV (%) and inter-assay CV(%).

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for EXP2. It may not necessarily be applicable to this product.

NCBI GI #	371502112
NCBI GeneID	1434

NCBI Accession #	NP_001243064.1
UniProt Primary Accession #	P55060
UniProt Secondary Accession #	O75432; Q32M40; Q9H5B7; Q9NTS0; Q9UP98; Q9UP99; Q9UPA0; A3RLL6; B2R5T4; E1P5Y0; F8W904
UniProt Related Accession #	P55060
GenBank Nucleotide #	NM_001256135.1
NCBI Official Full Name	exportin-2 isoform 2
NCBI Official Synonym Full Names	CSE1 chromosome segregation 1-like (yeast)
NCBI Official Symbol	CSE1L
NCBI Official Synonym Symbols	CAS; CSE1; XPO2
UniProt Protein Name	Exportin-2
UniProt Synonym Protein Names	Cellular apoptosis susceptibility protein; Chromosome segregation 1-like protein; Importin-alpha re-exporter
Protein Family	Exportin
UniProt Gene Name	CSE1L
UniProt Synonym Gene Names	CAS; XPO2; Exp2
UniProt Entry Name	XPO2_HUMAN
NCBI Protein Information	exportin-2; exp2; importin-alpha re-exporter; chromosome segregation 1-like protein; cellular apoptosis susceptibility protein
NCBI Summary for EXP2	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]
UniProt Comments for EXP2	Exportin-2: 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. Belongs to the XPO2/CSE1 family. 3 isoforms of the human protein are produced by alternative splicing. Protein type: Nuclear import; Karyopherin; Nuclear export Chromosomal Location of Human Ortholog: 20q13 Cellular Component: nucleoplasm; membrane; cytoplasm; nucleus Molecular Function: protein binding; importin-alpha export receptor activity; Ran GTPase binding Biological Process: cell proliferation; apoptosis; protein export from nucleus
Research Articles on EXP2	**1.** CSE1L expression was significantly inhibited in RKO cells, causing cell cycle arrest in the G2/M and S phases and a delay in cell proliferation, as well as induction of apoptosis and an inhibition of colony growth capacity.

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