

Human Exportin-1 (XPO1) ELISA Kit

Catalog No: #EK5809



Package Size: #EK5809-1 48T #EK5809-2 96T

Orders: order@signalwayantibody.com

Support: tech@signalwayantibody.com

Description

Product Name	Human Exportin-1 (XPO1) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	CRM1; DKFZp686B1823; CRM1; yeast; homolog Exportin-1 (required for chromosome region maintenance) OTTHUMP00000201471 OTTHUMP00000201493 OTTHUMP00000201494 exportin 1 exportin 1 (CRM1; yeast; homolog
Accession No.	O14980
Uniprot	O14980
GeneID	7514;
Storage	<p>The stability of ELISA kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition.</p> <p>The loss rate was determined by accelerated thermal degradation test. Keep the kit at 37C for 4 and 7 days, and compare O.D.values of the kit kept at 37C with that of at recommended temperature. (referring from China Biological Products Standard, which was calculated by the Arrhenius equation. For ELISA kit, 4 days storage at 37C can be considered as 6 months at 2 - 8C, which means 7 days at 37C equaling 12 months at 2 - 8C).</p>

Application Details

Detect Range:0.312-20 ng/mL

Sensitivity:0.117 ng/mL

Sample Type:Serum, Plasma, Other biological fluids

Sample Volume: 1-200 µL

Assay Time:1-4.5h

Detection wavelength:450 nm

Product Description

Detection Method:SandwichTest principle:This assay employs a two-site sandwich ELISA to quantitate XPO1 in samples. An antibody specific for XPO1 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyXPO1 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for XPO1 is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of XPO1 bound in the initial step. The color development is stopped and the intensity of the color is measured.

Product Overview:Exportin-1 mediates leucine-rich nuclear export signal (NES)-dependent protein transport. Exportin 1 specifically inhibits the nuclear export of Rev and U snRNAs. It is involved in the control of several cellular processes by controlling the localization of cyclin B, MPAK, and MAPKAP kinase 2.

This protein also regulates NFAT and AP-1.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. Involved in U3 snoRNA transport from Cajal bodies to nucleoli. Binds to late precursor U3 snoRNA bearing a TMG cap. Several viruses, among them HIV-1, HTLV-1 and influenza A use it to export their unspliced or incompletely spliced RNAs out of the nucleus.

Note: This product is for in vitro research use only