Recombinant Human XPO1 Protein (Thr917-Asp1071), His tagged

Cat. No. XPO1-5164H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human XPO1 (Thr917-Asp1071) fused with His tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Thr917-Asp1071
Description	Mediates the nuclear export of cellular proteins (cargos) bearing a leucine-rich nuclear export signal (NES) and of RNAs. In the nucleus, in association with RANBP3, binds cooperatively to the NES on its target protein and to the GTPase RAN in its active GTP-bound form (Ran-GTP) . Docking of this 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 cargo from the export receptor. 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.
Form	Lyophilized powder/frozen liquid

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Molecular Mass	18.66 kDa
Purity	>90% as determined by SDS-PAGE.
Notes	For research use only.
Storage	Use a manual defrost freezer and avoid repeated freeze thaw cycles. Store at 2 to 8 centigrade for one week. Store at -20 to -80 centigrade for twelve months from the date of receipt.
Storage Buffer	Supplied as solution form in PBS, pH 7.5 or lyophilized from PBS, pH 7.5.
Reconstitution	Reconstitute in sterile water for a stock solution.
Shipping	They are shipped out with dry ice/blue ice unless customers require otherwise.

GENE INFORMATION

Gene Name	XPO1 exportin 1 (CRM1 homolog, yeast) [Homo sapiens (human)]
Official Symbol	XPO1
Synonyms	XPO1; exportin 1 (CRM1 homolog, yeast); exportin 1 (CRM1, yeast, homolog); exportin-1; CRM1; emb; CRM1, yeast, homolog; chromosome region maintenance 1 protein homolog; exportin-1 (required for chromosome region maintenance); exp1; DKFZp686B1823;
Gene ID	7514
mRNA Refseq	NM_003400

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Protein Refseq	NP_003391
MIM	602559
UniProt ID	O14980

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