



Anti-IPO7 (aa 1026-1038) polyclonal antibody (DPABH-04608)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description Functions in nuclear protein import, either by acting as autonomous nuclear transport receptor or as an adapter-like protein in association with the importin-beta subunit KPNB1. Acting autonomously, is thought to serve itself as receptor for nuclear localization signals (NLS) and to promote translocation of import substrates through the nuclear pore complex (NPC) by an energy requiring, Ran-dependent mechanism. At the nucleoplasmic side of the NPC, Ran binds to importin, the importin/substrate complex dissociates and importin is re-exported from the nucleus to the cytoplasm where GTP hydrolysis releases Ran. The directionality of nuclear import is thought to be conferred by an asymmetric distribution of the GTP- and GDP-bound forms of Ran between the cytoplasm and nucleus. Mediates autonomously the nuclear import of ribosomal proteins RPL23A, RPS7 and RPL5. Binds to a beta-like import receptor binding (BIB) domain of RPL23A. In association with KPNB1 mediates the nuclear import of H1 histone and the Ran-binding site of IPO7 is not required but synergizes with that of KPNB1 in importin/substrate complex dissociation. In vitro, mediates nuclear import of H2A, H2B, H3 and H4 histones. In vitro, mediates the nuclear import of HIV-1 reverse transcription complex (RTC) integrase. In case of HIV-1 infection, binds and mediates the nuclear import of HIV-1 Rev.

Immunogen Synthetic peptide: SSFNFGGPAPGMN with a Cysteine residue linker, corresponding to C terminal amino acids 1026 - 1038 of Human Importin 7.

Isotype IgG

Source/Host Goat

Species Reactivity Human

Purification Protein G purified

Conjugate Unconjugated

Applications WB, ELISA, IHC-P

Format	Liquid
Size	50 µg
Buffer	pH: 7.30; Constituents: 0.5% BSA, 99% Tris buffered saline
Preservative	0.02% Sodium Azide
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid repeated freeze / thaw cycles.

GENE INFORMATION

Gene Name	IPO7 importin 8 [Homo sapiens]
Official Symbol	IPO7
Synonyms	IPO7; importin 7; Imp7; RANBP7; importin-7; RAN-binding protein 7;
Entrez Gene ID	10527
Protein Refseq	NP_006382.1
UniProt ID	B3KNG9
Function	Ran GTPase binding; histone binding; protein binding; small GTPase regulator activity