



## Human IPO4 peptide (DAG-P0667)

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

### PRODUCT INFORMATION

**Antigen Description** Functions in nuclear protein import as nuclear transport receptor. Serves as receptor for nuclear localization signals (NLS) in cargo substrates. Is thought to mediate docking of the importin/substrate complex to the nuclear pore complex (NPC) through binding to nucleoporin and the complex is subsequently translocated through the pore by an energy requiring, Ran-dependent mechanism. At the nucleoplasmic side of the NPC, Ran binds to the 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 (By similarity). Mediates the nuclear import of RPS3A. In vitro, mediates the nuclear import of human cytomegalovirus UL84 by recognizing a non-classical NLS.

<b>Conjugate</b>	Unconjugated
<b>Sequence Similarities</b>	Belongs to the importin beta family. Contains 6 HEAT repeats. Contains 1 importin N-terminal domain.
<b>Format</b>	Liquid
<b>Preservative</b>	None
<b>Storage</b>	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles. Information available upon request.

### GENE INFORMATION

<b>Gene Name</b>	<a href="#">IPO4 importin 4 [ Homo sapiens (human) ]</a>
<b>Official Symbol</b>	IPO4
<b>Synonyms</b>	IPO4; importin 4; Imp4; importin-4; imp4b; ranBP4; importin-4b; ran-binding protein 4;

<b>Entrez Gene ID</b>	<a href="#">79711</a>
<b>mRNA Refseq</b>	<a href="#">NM_024658.3</a>
<b>Protein Refseq</b>	<a href="#">NP_078934.3</a>
<b>UniProt ID</b>	B3KT38
<b>Chromosome Location</b>	14q12
<b>Function</b>	Ran GTPase binding;