

## Rabbit IPO4 Polyclonal Antibody | anti-IPO4 antibody

IPO4 Antibody

|                               |                       |                                        |                                                           |
|-------------------------------|-----------------------|----------------------------------------|-----------------------------------------------------------|
| CATALOG #<br><b>AAA323031</b> | HOST<br><b>Rabbit</b> | REACTIVITY<br><b>Human, Mouse, Rat</b> | APPLICATIONS<br><b>Immunohistochemistry, Western Blot</b> |
|-------------------------------|-----------------------|----------------------------------------|-----------------------------------------------------------|

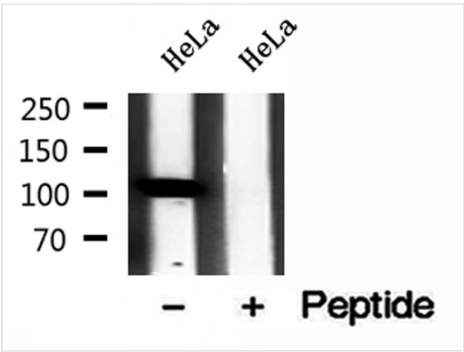
### PRODUCT SYNONYMS

IPO4; Polyclonal Antibody; IPO4 Antibody; Imp4; Imp4b; Importin 4; Importin 4b; Importin-4; Importin-4b; Ipo4; IPO4\_HUMAN; Ran binding protein 4; Ran-binding protein 4; RanBP4; anti-IPO4 antibody

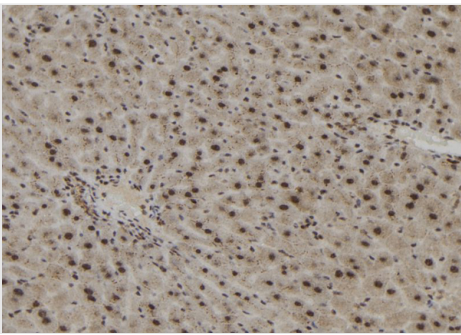
### PRODUCT SPECIFICATIONS

|                                                |                                                                                               |
|------------------------------------------------|-----------------------------------------------------------------------------------------------|
| Host                                           | Rabbit                                                                                        |
| Reactivity                                     | Human, Mouse, Rat                                                                             |
| Clonality                                      | Polyclonal                                                                                    |
| Isotype                                        | IgG                                                                                           |
| Specificity                                    | IPO4 antibody detects endogenous levels of IPO4.                                              |
| Purity/Purification                            | The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin. |
| Form/Format                                    | Liquid<br>Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. |
| Concentration                                  | 1mg/ml (varies by lot)                                                                        |
| Sequence Length                                | 1081                                                                                          |
| Applicable Applications for anti-IPO4 antibody | IHC (Immunohistochemistry), WB (Western Blot)                                                 |
| Immunogen                                      | A synthesized peptide derived from human IPO4.                                                |
| Subcellular Location                           | Cytoplasm. Nucleus.                                                                           |
| Predicted Cross Reactivity                     | <b>Pig, Bovine, Horse, Sheep, Rabbit, Dog</b>                                                 |
| Similarity                                     | Pig (100%), Bovine (100%), Horse (100%), Sheep (92%), Rabbit (100%), Dog (100%)               |
| Conjugation                                    | Unconjugated                                                                                  |
| Preparation and Storage                        | Store at -20 degree C. Stable for 12 months from date of receipt.                             |

IMAGES



**WB (Western Blot)**  
Western blot analysis of extracts of HeLa cells, using IPO4 antibody.



**IHC (Immunohistochemistry)**  
AAA323031 at 1/100 staining Mouse liver tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.

ADDITIONAL INFORMATION

|                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-----------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Related Product Information for anti-IPO4 antibody</b> | <p>Function: 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.</p> <p>Subunit Structure: Binds with high affinity to RPS3A. The binding is coupled to RanGTP cycles. Binds to human cytomegalovirus UL84. Found in a cytosolic complex with ASF1A, ASF1B, CDAN1 and histones H3.1 and H4.</p> <p>Similarity: Belongs to the importin beta family.</p> |
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NCBI AND UNIPROT INFORMATION

|                                  |                                                                |
|----------------------------------|----------------------------------------------------------------|
| NCBI GI #                        | 62460637                                                       |
| NCBI GeneID                      | 79711                                                          |
| NCBI Accession #                 | NP_078934.3                                                    |
| NCBI GenBank Nucleotide #        | NM_024658.3                                                    |
| UniProt Accession #              | Q8TEX9; Q2NL96; Q86TZ9; Q8NCG8; Q96SJ3; Q9BTI4; Q9H5L0; B2RN95 |
| Molecular Weight                 | Observed: 118 kDa<br>Predicted: 119 kDa                        |
| NCBI Official Full Name          | importin-4                                                     |
| NCBI Official Synonym Full Names | importin 4                                                     |
| NCBI Official Symbol             | IPO4                                                           |
| NCBI Official Synonym Symbols    | Imp4                                                           |
| NCBI Protein Information         | importin-4                                                     |
| UniProt Protein Name             | Importin-4                                                     |
| UniProt Gene Name                | IPO4                                                           |
| UniProt Synonym Gene Names       | IMP4B; RANBP4; Imp4; Imp4b; RanBP4                             |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/ipo4-antibody-immunohistochemistry-western-blot-elisa/323031>