

Datasheet for ABIN6983444

## anti-Importin 5 antibody (AA 501-600) (Cy3)



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### Overview

|                      |                                                                                                         |
|----------------------|---------------------------------------------------------------------------------------------------------|
| Quantity:            | 100 µL                                                                                                  |
| Target:              | Importin 5 (IPO5)                                                                                       |
| Binding Specificity: | AA 501-600                                                                                              |
| Reactivity:          | Rat                                                                                                     |
| Host:                | Rabbit                                                                                                  |
| Clonality:           | Polyclonal                                                                                              |
| Conjugate:           | This Importin 5 antibody is conjugated to Cy3                                                           |
| Application:         | Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p)) |

### Product Details

|                       |                                                                        |
|-----------------------|------------------------------------------------------------------------|
| Immunogen:            | KLH conjugated synthetic peptide derived from human Karyopherin beta 3 |
| Isotype:              | IgG                                                                    |
| Cross-Reactivity:     | Rat                                                                    |
| Predicted Reactivity: | Human,Mouse,Cow,Sheep,Pig,Horse                                        |
| Purification:         | Purified by Protein A.                                                 |

### Target Details

|                   |                                                      |
|-------------------|------------------------------------------------------|
| Target:           | Importin 5 (IPO5)                                    |
| Alternative Name: | Karyopherin beta 3 ( <a href="#">IPO5 Products</a> ) |

## Target Details

|             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Background: | <p>Synonyms: DKFZp686O1576, FLJ43041, IMB3, Imp5, Importin 5, Importin beta 3 subunit, Importin subunit beta 3, Importin subunit beta-3, Importin-5, IPO 5, IPO5, IPO5_HUMAN, Karyopherin beta 3, Karyopherin beta-3, KPNB3, MGC2068, Pse1, Ran binding protein 5, Ran GTP binding protein 5, Ran-binding protein 5, RanBP 5, RanBP5.</p> <p>Background: 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 ribosomal proteins RPL23A, RPS7 and RPL5. Binds to a beta-like import receptor binding (BIB) domain of RPL23A. In vitro, mediates nuclear import of H2A, H2B, H3 and H4 histones. In case of HIV-1 infection, binds and mediates the nuclear import of HIV-1 Rev.</p> |
| Gene ID:    | 3843                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| UniProt:    | <a href="#">O00410</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Pathways:   | <a href="#">Protein targeting to Nucleus</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

## Application Details

|                    |                                                              |
|--------------------|--------------------------------------------------------------|
| Application Notes: | IF(IHC-P) 1:50-200<br>IF(IHC-F) 1:50-200<br>IF(ICC) 1:50-200 |
| Restrictions:      | For Research Use only                                        |

## Handling

|                |                                                                                                             |
|----------------|-------------------------------------------------------------------------------------------------------------|
| Format:        | Liquid                                                                                                      |
| Concentration: | 1 µg/µL                                                                                                     |
| Buffer:        | Aqueous buffered solution containing 0.01M TBS ( pH 7.4) with 1 % BSA, 0.03 % Proclin300 and 50 % Glycerol. |
| Preservative:  | ProClin                                                                                                     |

Handling

|                    |                                                                                                                    |
|--------------------|--------------------------------------------------------------------------------------------------------------------|
| Precaution of Use: | This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only. |
| Storage:           | -20 °C                                                                                                             |
| Storage Comment:   | Store at -20°C. Aliquot into multiple vials to avoid repeated freeze-thaw cycles.                                  |
| Expiry Date:       | 12 months                                                                                                          |