

For Research Use Only

# IPO5 Polyclonal antibody

Catalog Number: 33581-1-AP



## Basic Information

**Catalog Number:**

33581-1-AP

**Size:**

150ul , Concentration: 300 ug/ml by Nanodrop;

**Source:**

Rabbit

**Isotype:**

IgG

**Immunogen Catalog Number:**

AG30955

**GenBank Accession Number:**

BC001497

**GeneID (NCBI):**

3843

**UNIPROT ID:**

O00410

**Full Name:**

importin 5

**Observed MW:**

120-124 kDa

**Purification Method:**

Antigen affinity Purification

**Recommended Dilutions:**

WB: 1:500-1:2000

IP: 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

## Applications

**Tested Applications:**

WB, IP, ELISA

**Species Specificity:**

human, mouse, rat

**Positive Controls:**

WB : HeLa cells, mouse testis tissue, rat skeletal muscle tissue, rat testis tissue

IP : HeLa cells,

## Background Information

IPO5 is a member of the importin beta family. Structurally, the protein adopts the shape of a right-hand solenoid and is composed of 24 HEAT repeats. IPO5 facilitates cytoplasmic polyadenylation element-binding protein CPEB3 translocation by binding to the RRM1 motif of CPEB3 in neurons. NMDAR signaling increases RanBP1 expression and reduces the level of cytoplasmic GTP-bound Ran. These changes enhance CPEB3-IPO5 interaction, which consequently accelerates the nuclear import of CPEB3 and promotes its nuclear function.

## Storage

**Storage:**

Store at -20°C. Stable for one year after shipment.

**Storage Buffer:**

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

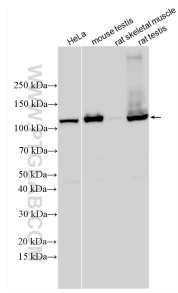
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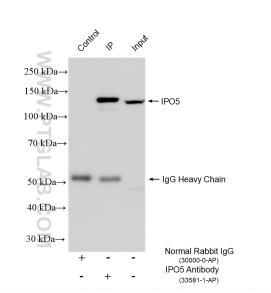
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## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 33581-1-AP (IPOS antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



IP result of anti-IPOS (IP:33581-1-AP, 4ug; Detection:33581-1-AP 1:600) with HeLa cells lysate 920 ug.