

For Research Use Only

# KIF18B Polyclonal antibody

Catalog Number:33139-1-AP



## Basic Information

Catalog Number:

33139-1-AP

Size:

150ul , Concentration: 400 ug/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG36663

GenBank Accession Number:

BC136590

GeneID (NCBI):

146909

UNIPROT ID:

Q86Y91

Full Name:

kinesin family member 18B

Calculated MW:

852 aa, 93 kDa/833 aa, 91 kDa

Observed MW:

100 kDa

Purification Method:

Antigen affinity Purification

Recommended Dilutions:

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

IF/ICC: 1:200-1:800

## Applications

Tested Applications:

IP, ELISA

Species Specificity:

human

Positive Controls:

IP : Jurkat cells,

IF/ICC : U2OS cells, Jurkat cells

## Background Information

KIF18B is a key member of the kinesin-8 family, involved in regulating various physiological processes such as microtubule length, spindle assembly, and chromosome alignment. This article briefly introduces the structure and physiological functions of KIF18B, examines its role in malignant tumors, and the associated carcinogenic signaling pathways such as PI3K/AKT, Wnt/ $\beta$ -catenin, and mTOR pathways. Research indicates that the upregulation of KIF18B enhances tumor malignancy and resistance to radiotherapy and chemotherapy. KIF18B could become a new target for anticancer drugs, offering significant potential for the treatment of malignant tumors and reducing chemotherapy resistance (PMID: 39259333).

## 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

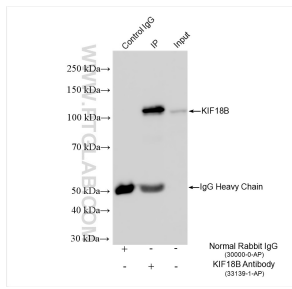
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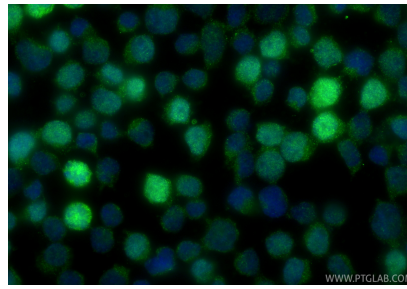
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## Selected Validation Data



IP result of anti-KIF18B (IP:33139-1-AP, 4ug; Detection:33139-1-AP 1:400) with Jurkat cells lysate 1360 ug.



Immunofluorescent analysis of (4% PFA) fixed Jurkat cells using KIF18B antibody (33139-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).



Immunofluorescent analysis of (4% PFA) fixed U2OS cells using KIF18B antibody (33139-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red).