

For Research Use Only

# KIF18A Polyclonal antibody

Catalog Number: 19245-1-AP

Featured Product

12 Publications



## Basic Information

**Catalog Number:**

19245-1-AP

**Size:**

150ul, Concentration: 700 µg/ml by Nanodrop;

**Source:**

Rabbit

**Isotype:**

IgG

**Immunogen Catalog Number:**

AG6166

**GenBank Accession Number:**

BC048347

**GeneID (NCBI):**

81930

**UNIPROT ID:**

Q8NI77

**Full Name:**

kinesin family member 18A

**Calculated MW:**

102 kDa

**Observed MW:**

102 kDa

**Purification Method:**

Antigen affinity purification

**Recommended Dilutions:**

WB 1:500-1:2000

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

IHC 1:50-1:500

## Applications

**Tested Applications:**

WB, IP, IHC, ELISA

**Cited Applications:**

WB, IF, IHC

**Species Specificity:**

human

**Cited Species:**

human, mouse

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

**Positive Controls:**

WB : Jurkat cells, HeLa cells

IP : Jurkat cells,

IHC : human colon cancer tissue, human liver tissue, human breast cancer tissue

## Background Information

KIF18A belongs to the Kinesin family. KIF18A binds to microtubules and moves along them using energy from ATP hydrolysis. KIF18A is related to the localization of membrane organelles and protein complexes, as well as the maintenance of microtubule dynamics and mitosis. KIF18A expression is low in normal tissues and high in solid tumors, including breast cancer, hepatocellular carcinoma and lung adenocarcinoma, colorectal cancer, renal cell carcinoma, and head and neck squamous cell carcinoma. The molecular weight of KIF18A is 102 kDa (PMID: 36830695).

## Notable Publications

Author	Pubmed ID	Journal	Application
Fu-Tao Chen	31772692	Dis Markers	WB
Weijia Liao	25431949	Oncotarget	IHC
Feng Tang	30459823	Cell Div	WB,IF

## Storage

**Storage:**

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

**Storage Buffer:**

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

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

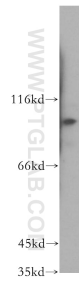
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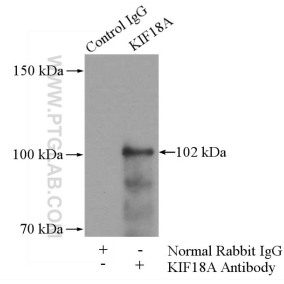
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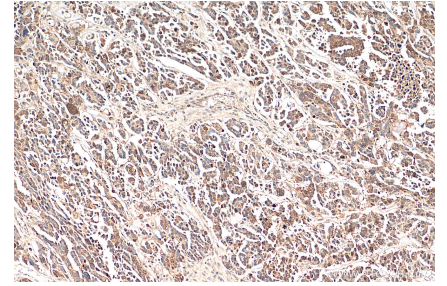
## Selected Validation Data



Jurkat cells were subjected to SDS PAGE followed by western blot with 19245-1-AP (KIF18A antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



IP result of anti-KIF18A (IP:19245-1-AP, 4ug; Detection:19245-1-AP 1:500) with Jurkat cells lysate 2400ug.



Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 19245-1-AP (KIF18A antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).