

For Research Use Only

# KIF22 Polyclonal antibody

Catalog Number: 13403-1-AP

Featured Product

3 Publications



## Basic Information

### Catalog Number:

13403-1-AP

### Size:

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

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG4254

### GenBank Accession Number:

BC028155

### GeneID (NCBI):

3835

### UNIPROT ID:

Q14807

### Full Name:

kinesin family member 22

### Calculated MW:

665 aa, 73 kDa

### Observed MW:

68-73 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

IHC 1:250-1:1000

## Applications

### Tested Applications:

WB, IHC, IP, ELISA

### Cited Applications:

WB, IHC, IF

### Species Specificity:

human, mouse, rat

### Cited Species:

human, mouse

### Positive Controls:

**WB**: Jurkat cells, human heart tissue, MKN-45 cells, T-47D cells

**IP**: HeLa cells,

**IHC**: human stomach cancer tissue, human breast cancer tissue, human brown disease, human cervical cancer tissue, mouse testis tissue

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

## Background Information

KIF22, also known as KID (kinesin-like DNA-binding protein), is a kinesin-like DNA-binding protein known to be involved in chromosome movement during mitosis. KIF22 is a nuclear protein regulated by SIAH-1, whose level fluctuate in a cell cycle-dependent manner, increasing during pre-mitotic phases and greatly decreasing during mitosis. KIF22 localizes to the nucleus of the interphase cells upon entry into mitosis and displays some punctate cytoplasmic staining. Defects in KIF22 are the cause of spondyloepimetaphyseal dysplasia with joint laxity, type 2 (SEMDJL2).

## Notable Publications

Author	Pubmed ID	Journal	Application
Sara Bizzotto	29229923	Sci Rep	IF
Yan Guang-Rong GR	22887948	Proteomics	WB
Ze-Yuan Yu	32187050	Chin Med J (Engl)	WB,IHC

## 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

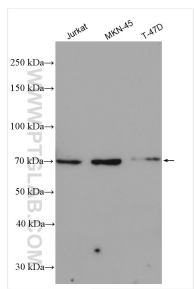
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

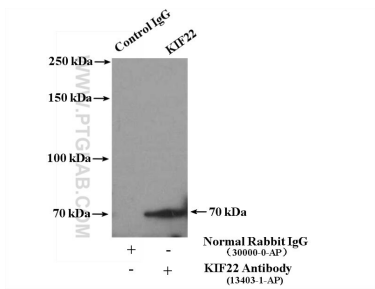
E: proteintech@ptglab.com  
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

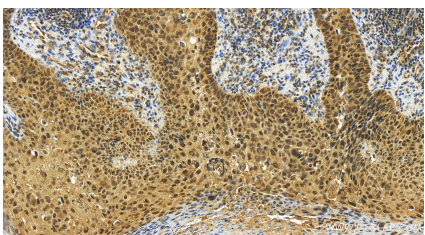
Selected Validation Data



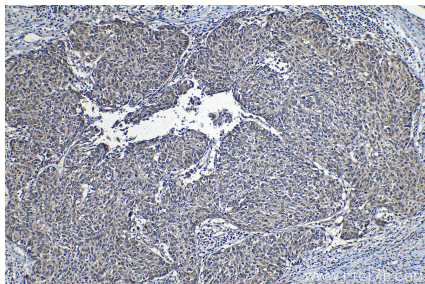
Various lysates were subjected to SDS PAGE followed by western blot with 13403-1-AP (KIF22 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



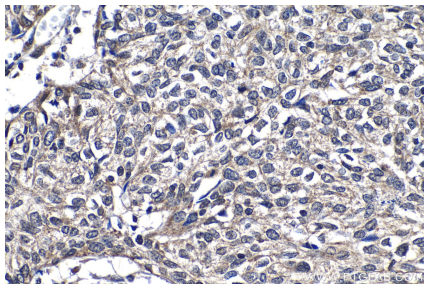
IP result of anti-KIF22 (IP:13403-1-AP, 4ug; Detection:13403-1-AP 1:300) with HeLa cells lysate 4000ug.



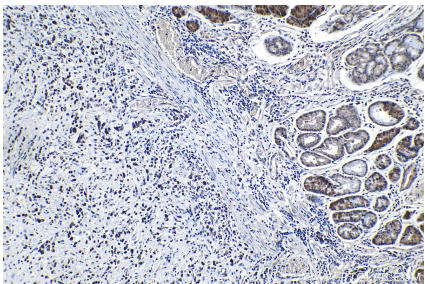
Immunohistochemical analysis of paraffin-embedded human brown disease slide using 13403-1-AP (KIF22 antibody) at dilution of 1:200 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



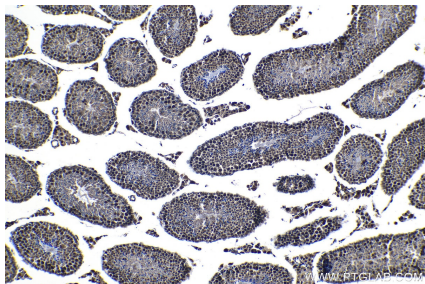
Immunohistochemical analysis of paraffin-embedded human cervical cancer tissue slide using 13403-1-AP (KIF22 antibody) at dilution of 1:500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



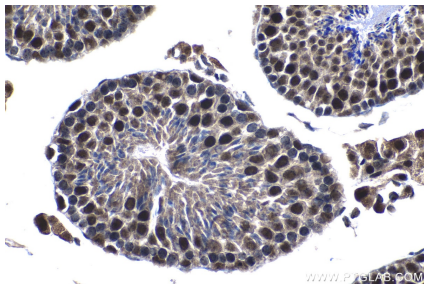
Immunohistochemical analysis of paraffin-embedded human cervical cancer tissue slide using 13403-1-AP (KIF22 antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human stomach cancer tissue slide using 13403-1-AP (KIF22 antibody) at dilution of 1:500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse testis tissue slide using 13403-1-AP (KIF22 antibody) at dilution of 1:500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse testis tissue slide using 13403-1-AP (KIF22 antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human stomach cancer tissue slide using 13403-1-AP (KIF22 antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).