

For Research Use Only

KIF21A Polyclonal antibody

Catalog Number: 27276-1-AP

1 Publications



Basic Information

Catalog Number:

27276-1-AP

Size:

150ul, Concentration: 1500 ug/ml by Nanodrop and 767 ug/ml by Bradford method using BSA as the standard;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG26192

GenBank Accession Number:

NM_001173463

GeneID (NCBI):

55605

Full Name:

kinesin family member 21A

Calculated MW:

187 kDa

Observed MW:

190-200 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:3000

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

IHC 1:50-1:500

Applications

Tested Applications:

WB, IHC, IP, ELISA

Cited Applications:

WB, IF

Species Specificity:

human, mouse

Cited Species:

rat

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 : HEK-293T cells, mouse brain tissue, MCF-7

IP : mouse brain tissue,

IHC : human ovary cancer tissue,

Background Information

KIF21A is well known for its association with congenital fibrosis of the extraocular muscles type 1 (CFEOM1). CFEOM1-related mutations in KIF21A relieve autoinhibition of the motor and third coiled-coil stalk, which results in enhanced accumulation of KIF21A in axonal growth cones and aberrant axon morphology in the oculomotor nerve. (PMID: 38767486)

Notable Publications

Author	Pubmed ID	Journal	Application
Shi-Yan Sun	38767486	Neural Regen Res	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

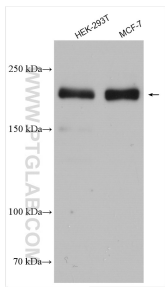
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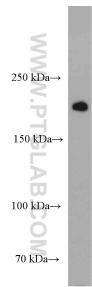
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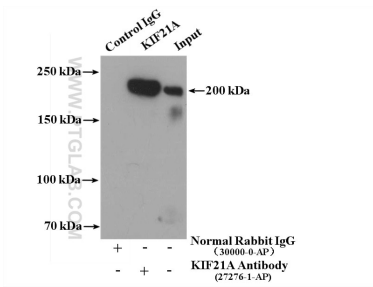
Selected Validation Data



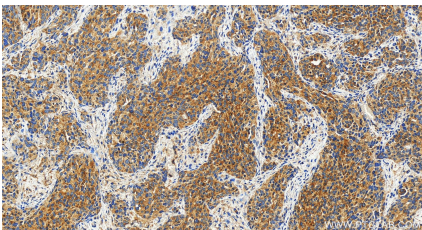
Various lysates were subjected to SDS PAGE followed by western blot with 27276-1-AP (KIF21A antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.



mouse brain tissue were subjected to SDS PAGE followed by western blot with 27276-1-AP (KIF21A Antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours.



IP result of anti-KIF21A (IP:27276-1-AP, 4ug; Detection:27276-1-AP 1:500) with mouse brain tissue lysate 5600ug.



Immunohistochemical analysis of paraffin-embedded human ovary cancer tissue slide using 27276-1-AP (KIF21A antibody) at dilution of 1:200 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).