

For Research Use Only

EphA4 Polyclonal ANTIBODY



Catalog Number: 21875-1-AP

Featured Product

1 Publications

Basic Information

Catalog Number:

21875-1-AP

Size:

150UL, Concentration: 460 µg/ml by Bradford method using BSA as the standard;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG16233

GenBank Accession Number:

BC026327

GeneID (NCBI):

2043

Full Name:

EPH receptor A4

Calculated MW:

986 aa, 110 kDa

Observed MW:

120 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:2000

IP 0.5-4.0 µg for IP and 1:500-1:2000 for WB

IF 1:50-1:500

Applications

Tested Applications:

FC, IF, IP, WB, ELISA

Cited Applications:

WB

Species Specificity:

human, mouse

Cited Species:

human

Positive Controls:

WB: mouse brain tissue, rat brain tissue

IP: mouse brain tissue,

IF: Neuron cells,

Background Information

EphA4 is a member of the Eph receptor tyrosine kinase family and has important functions in the developing and adult nervous system (PMID: 14697664). The Eph receptors comprise a large family of closely related transmembrane tyrosine kinases that actively signal when bound to their ephrin ligands. The Eph receptors are characterized by an extracellular region with a unique cysteine-rich motif extending over its amino-terminal half, followed by two fibronectin type III motifs (PMID: 9530499). They are divided into two sub-groups (EphA and EphB) based on the similarity of their extracellular domain sequences and their affinities for binding ephrin-A and ephrin-B ligands (PMID: 11114742). EphA4 is involved in commissure formation within the forebrain, axonal guidance in the corticospinal tract, regulation of the central pattern generator that provides normal locomotor function and axonal regeneration following spinal cord injury (PMID: 30061574). EphA4 has been implicated as a disease modifier of amyotrophic lateral sclerosis (ALS) (PMID: 22922411).

Notable Publications

Author	Pubmed ID	Journal	Application
De Cai	31150684	Life Sci	WB

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

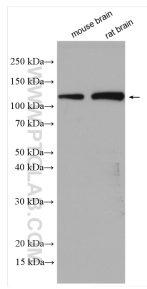
For technical support and original validation data for this product please contact:

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

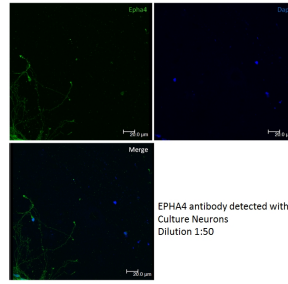
E: proteintech@ptglab.com
W: ptglab.com

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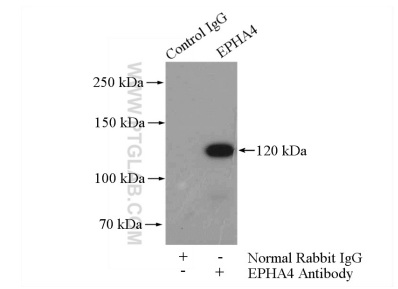
Selected Validation Data



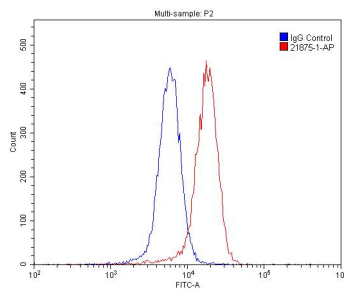
Various lysates were subjected to SDS PAGE followed by western blot with 21875-1-AP (EphA4 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



IF result of EphA4 antibody (21875-1-AP, 1:50) with culture neuron cells by Wilson Pak Kin Lou.



IP Result of anti-EphA4 (IP:21875-1-AP, 4ug; Detection:21875-1-AP 1:1000) with mouse brain tissue lysate 4000ug.



1X10⁶ SH-SY5Y cells were stained with 0.2ug EphA4 antibody (21875-1-AP, red) and control antibody (blue). Fixed with 4% PFA blocked with 3% BSA (30 min). Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) with dilution 1:1500.