

EPHB3 Polyclonal antibody

Catalog Number: 21382-1-AP

Basic Information

Catalog Number: 21382-1-AP	GenBank Accession Number: BC052968	Purification Method: Antigen affinity purification
Concentration: 450 ug/ml	GeneID (NCBI): 2049	Recommended Dilutions: IHC 1:200-1:800 IF/ICC 1:50-1:500
Source: Rabbit	UNIPROT ID: P54753	
Isotype: IgG	Full Name: EPH receptor B3	
Immunogen Catalog Number: AG16016	Calculated MW: 998 aa, 110 kDa Observed MW: 90-100 kDa	

Applications

Tested Applications: IHC, IF/ICC, ELISA	Positive Controls: IHC : mouse brain tissue, IF/ICC : Jurkat cells,
Species Specificity: 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	

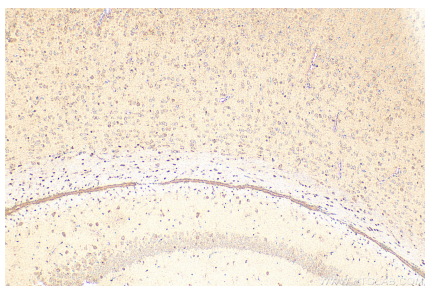
Background Information

EPHB3 is a member of the Eph receptor tyrosine kinase family. 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). The EPHB3 protein has multiple functions in the nervous system, including regulating neural networks, participating in epileptic activity, and playing a role in repair after spinal cord injury.

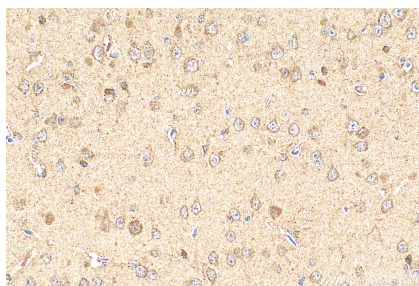
Storage

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

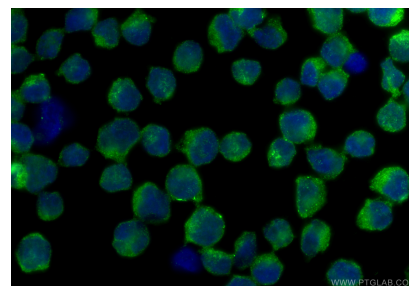
Selected Validation Data



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 21382-1-AP (EPHB3 antibody) at dilution of 1:400 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 21382-1-AP (EPHB3 antibody) at dilution of 1:400 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed Jurkat cells using EPHB3 antibody (21382-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).