

For Research Use Only

Mouse EPHA2 Recombinant monoclonal antibody, PBS Only (Detector)

Catalog Number: 87904-1-PBS



Basic Information

Catalog Number: 87904-1-PBS	GenBank Accession Number: NM_010139.3	Purification Method: Protein A purification
Size: 100ug , Concentration: 1 mg/ml by Nanodrop;	GeneID (NCBI): 13836	CloneNo.: 253572H2
Source: Rabbit	UNIPROT ID: Q03145	
Isotype: IgG	Full Name: Eph receptor A2	
Immunogen Catalog Number: EG8778	Calculated MW: 109 kDa	
	Observed MW: 130 kDa	

Applications

Tested Applications:
WB, IF/ICC, Cytometric bead array, Indirect ELISA

Species Specificity:
mouse

Product Information

87904-1-PBS targets EPHA2 as part of a matched antibody pair:

MP03249-1: 87904-2-PBS capture and 87904-1-PBS detection (validated in Cytometric bead array)

Unconjugated rabbit recombinant monoclonal antibody in PBS only (BSA and azide free) storage buffer at a concentration of 1 mg/mL, ready for conjugation. Created using Proteintech's proprietary in-house recombinant technology. Recombinant production enables unrivalled batch-to-batch consistency, easy scale-up, and future security of supply.

This conjugation ready format makes antibodies ideal for use in many applications including: ELISAs, multiplex assays requiring matched pairs, mass cytometry, and multiplex imaging applications. Antibody use should be optimized by the end user for each application and assay.

Background Information

EPH receptor A2 (EPHA2) is a receptor tyrosine kinase (RTK) of the Eph receptor family that primarily binds glycosylphosphatidylinositol (GPI)-anchored ephrin-A ligands, especially ephrin-A1 (EFNA1), to mediate contact-dependent cell-cell signaling. In mice, Epha2 is broadly expressed in epithelial, endothelial, and selected stromal compartments, where it regulates cell adhesion, polarity, migration, proliferation, barrier organization, and tissue architecture.

Storage

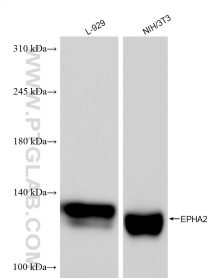
Storage:
Store at -80°C.

Storage Buffer:
PBS only, pH7.3

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

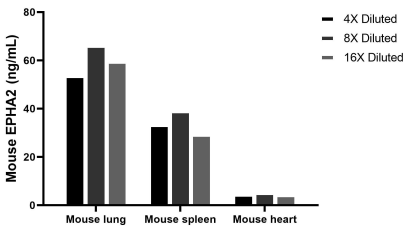
This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data

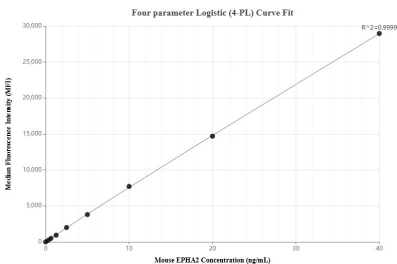


Various lysates were subjected to SDS PAGE followed by western blot with 87904-1-RR (EPHA2 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 87904-1-PBS in a different storage buffer formulation.

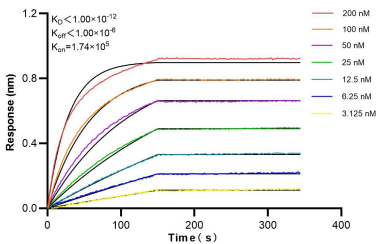
Immunofluorescent analysis of (-20°C Ethanol) fixed NIH/3T3 cells using EPHA2 antibody (87904-1-RR, Clone: 253572H2) at dilution of 1:400 and CoraLite® 488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2). This data was developed using the same antibody clone with 87904-1-PBS in a different storage buffer formulation.



The mean EPHA2 concentration was determined to be 59.7 ng/mL in mouse lung tissue extract based on a 5.0 mg/mL extract load, 33.8 ng/mL in mouse spleen tissue extract based on a 7.6 mg/mL extract load, 4.6 ng/mL in mouse heart tissue extract based on a 5.4 mg/mL extract load.



Cytometric bead array standard curve of MP03249-1, MOUSE EPHA2 Recombinant Matched Antibody Pair, PBS Only. Capture antibody: 87904-2-PBS. Detection antibody: 87904-1-PBS. Standard: Eg8778. Range: 0.312-40 ng/mL.



Biolayer interferometry (BLI) kinetic assays of 87904-1-RR against Mouse EPHA2 were performed. The affinity constant is below 1 pM.