

# **Anti-Eph receptor A1/EPHA1 Antibody**

Catalog Number: PA1573

#### **About EPHA1**

EPHA1, EPH receptor A1, is a protein that in humans is encoded by the EPHA1 gene. This gene belongs to the ephrin receptor subfamily of the protein-tyrosine kinase family. The EPHA1 gene is mapped to 7q34-q35. EPH and EPH-related receptors have been implicated in mediating developmental events, particularly in the nervous system. Receptors in the EPH subfamily typically have a single kinase domain and an extracellular region containing a Cys-rich domain and 2 fibronectin type III repeats. The ephrin receptors are divided into 2 groups based on the similarity of their extracellular domain sequences and their affinities for binding ephrin-A and ephrin-B ligands. This gene is expressed in some human cancer cell lines and has been implicated in carcinogenesis.

#### Overview

Product Name	Anti-Eph receptor A1/EPHA1 Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-Eph receptor A1/EPHA1 Antibody catalog # PA1573. Tested in IHC, WB applications. This antibody reacts with Human, Mouse, Rat.
Application	IHC, WB
Clonality	Polyclonal
Formulation	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg Thimerosal, 0.05mg NaN3.
Storage Instructions	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	P21709

#### **Technical Details**

Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human Eph receptor A1, identical to the related rat and mouse sequences.
Predicted Reactive Species	Bovine
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (SV0002-1) for IHC(P).
Cross Reactivity	No cross-reactivity with other proteins
Isotype	Rabbit IgG
Form	Lyophilized





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Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.  If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.  Some PubMed article(s) citing the expression level of this target are as follows:  Boster Bio's internal QC testing used:  Immunohistochemistry (Paraffin-embedded Section), 0.5-1ug/ml, Human, Rat, Mouse, By Heat Western blot, 0.1-0.5ug/ml, Human, Rat, Mouse



### Anti-Eph receptor A1/EPHA1 Antibody (PA1573) Images

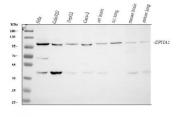


Figure 1. Western blot analysis of Eph receptor A1 using anti-Eph receptor A1 antibody (PA1573).

Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

Lane 1: human Hela whole cell lysates,

Lane 2: human Colo320 whole cell lysates,

Lane 3: human HepG2 whole cell lysates,

Lane 4: human Caco-2 whole cell lysates,

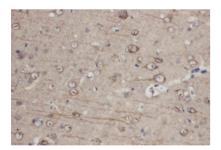
Lane 5: rat brain tissue lysates,

Lane 6: rat lung tissue lysates,

Lane 7: mouse brain tissue lysates,

Lane 8: mouse lung tissue lysate.

After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-Eph receptor A1 antigen affinity purified polyclonal antibody (Catalog # PA1573) at 0.5 ug/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for Eph receptor A1 at approximately 113 kDa. The expected band size for Eph receptor A1 is at 108 kDa.



Anti-Eph receptor A1 antibody, PA1573, IHC(P) IHC(P): Rat Brain Tissue



Anti-Eph receptor A1 antibody, PA1573, IHC(P) IHC(P): Human Colon Cancer Tissue

### 1 Publications Citing This Product







Treatment: An Experimental Study,14 June 2021, PREPRINT (Version 1) available at Research Square [https://doi.org/10.21203/rs.3.rs-561841/v1]

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