

## **Anti-Eph Receptor A5 Picoband Antibody**

**Catalog # ABO12269** 

## **Specification**

## **Anti-Eph Receptor A5 Picoband Antibody - Product Information**

Application WB
Primary Accession P54756
Host Rabbit

Reactivity Human, Mouse, Rat

Clonality Polyclonal Lyophilized

**Description** 

#### Reconstitution

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

## **Anti-Eph Receptor A5 Picoband Antibody - Additional Information**

## **Gene ID 2044**

#### **Other Names**

Ephrin type-A receptor 5, 2.7.10.1, Brain-specific kinase, EPH homology kinase 1, EHK-1, EPH-like kinase 7, EK7, hEK7, EPHA5, BSK, EHK1, HEK7, TYRO4

## **Calculated MW**

114803 MW KDa

#### **Application Details**

Western blot, 0.1-0.5 μg/ml, Mouse, Rat, Human<br>

### **Subcellular Localization**

Cell membrane ; Single-pass type I membrane protein . Cell projection, axon . Cell projection, dendrite .

#### **Tissue Specificity**

Almost exclusively expressed in the nervous system in cortical neurons, cerebellar Purkinje cells and pyramidal neurons within the cortex and hippocampus. Display an increasing gradient of expression from the forebrain to hindbrain and spinal cord. .

## **Protein Name**

Ephrin type-A receptor 5

#### **Contents**

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.

## **Immunogen**

A synthetic peptide corresponding to a sequence at the C-terminus of human Eph receptor A5





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(1001-1032aa TLEDLRRLGVTLVGHQKKIMNSLQEMKVQLVN), different from the related mouse sequence by two amino acids.

**Purification** 

Immunogen affinity purified.

**Cross Reactivity** 

No cross reactivity with other proteins

Storage

At -20°C for one year. After r°Constitution, at 4°C for one month. It Can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.

### **Sequence Similarities**

Belongs to the protein kinase superfamily. Tyr protein kinase family. Ephrin receptor subfamily.

## Anti-Eph Receptor A5 Picoband Antibody - Protein Information

Name EPHA5

Synonyms BSK, EHK1, HEK7, TYRO4

#### **Function**

Receptor tyrosine kinase which binds promiscuously GPI- anchored ephrin-A family ligands residing on adjacent cells, leading to contact-dependent bidirectional signaling into neighboring cells. The signaling pathway downstream of the receptor is referred to as forward signaling while the signaling pathway downstream of the ephrin ligand is referred to as reverse signaling. Among GPI-anchored ephrin-A ligands, EFNA5 most probably constitutes the cognate/functional ligand for EPHA5. Functions as an axon guidance molecule during development and may be involved in the development of the retinotectal, entorhino- hippocampal and hippocamposeptal pathways. Together with EFNA5 plays also a role in synaptic plasticity in adult brain through regulation of synaptogenesis. In addition to its function in the nervous system, the interaction of EPHA5 with EFNA5 mediates communication between pancreatic islet cells to regulate glucose-stimulated insulin secretion (By similarity).

#### **Cellular Location**

Cell membrane; Single-pass type I membrane protein. Cell projection, axon {ECO:0000250|UniProtKB:P54757}, Cell projection, dendrite

## **Tissue Location**

Almost exclusively expressed in the nervous system in cortical neurons, cerebellar Purkinie cells and pyramidal neurons within the cortex and hippocampus. Display an increasing gradient of expression from the forebrain to hindbrain and spinal cord

# Anti-Eph Receptor A5 Picoband Antibody - Protocols

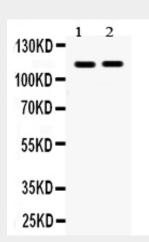
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry



- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

## **Anti-Eph Receptor A5 Picoband Antibody - Images**



Anti- Eph receptor A5 Picoband antibody, ABO12269, Western blottingAll lanes: Anti Eph receptor A5 (ABO12269) at 0.5ug/mlLane 1: Rat Brain Tissue Lysate at 50ugLane 2: Mouse Brain Tissue Lysate at 50ugPredicted bind size: 114KDObserved bind size: 114KD

#### Anti-Eph Receptor A5 Picoband Antibody - Background

EPH receptor A5 (ephrin type-A receptor 5) is a protein that in humans is encoded by the EPHA5 gene. This gene belongs to the ephrin receptor subfamily of the protein-tyrosine kinase family. 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. Alternatively spliced transcript variants encoding different isoforms have been described.