

Datasheet for ABIN6243653  
**anti-EPH Receptor B1 antibody (AA 374-409)**[Go to Product page](#)

## 2 Images

## Overview

Quantity:	400 µL
Target:	EPH Receptor B1 (EPHB1)
Binding Specificity:	AA 374-409
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This EPH Receptor B1 antibody is un-conjugated
Application:	Western Blotting (WB)

## Product Details

Immunogen:	This Mouse Ephb1 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 374-409 amino acids from the Central region of Mouse Ephb1.
Clone:	RB50839
Isotype:	Ig Fraction
Predicted Reactivity:	C
Purification:	This antibody is purified through a protein A column, followed by peptide affinity purification.

## Target Details

Target:	EPH Receptor B1 (EPHB1)
Alternative Name:	Ephb1 ( <a href="#">EPHB1 Products</a> )

## Target Details

**Background:** Receptor tyrosine kinase which binds promiscuously transmembrane ephrin-B 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. Cognate/functional ephrin ligands for this receptor include EFNB1, EFNB2 and EFNB3. During nervous system development, regulates retinal axon guidance redirecting ipsilaterally ventrotemporal retinal ganglion cells axons at the optic chiasm midline. This probably requires repulsive interaction with EFNB2. In the adult nervous system together with EFNB3, regulates chemotaxis, proliferation and polarity of the hippocampus neural progenitors. Beside its role in axon guidance plays also an important redundant role with other ephrin-B receptors in development and maturation of dendritic spines and synapse formation. May also regulate angiogenesis. More generally, may play a role in targeted cell migration and adhesion. Upon activation by EFNB1 and probably other ephrin-B ligands activates the MAPK/ERK and the JNK signaling cascades to regulate cell migration and adhesion respectively.

**Molecular Weight:** 109881

**UniProt:** [Q8CBF3](#)

**Pathways:** [RTK Signaling](#)

## Application Details

**Application Notes:** WB: 1:1000. WB: 1:1000

**Restrictions:** For Research Use only

## Handling

**Format:** Liquid

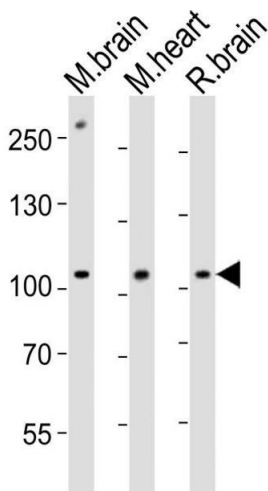
**Buffer:** Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) sodium azide.

**Preservative:** Sodium azide

**Precaution of Use:** This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

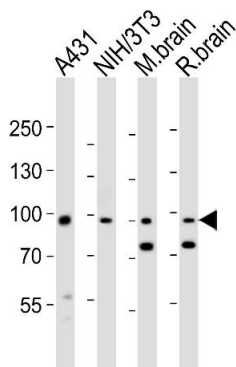
**Storage:** 4 °C, -20 °C

**Expiry Date:** 6 months



#### Western Blotting

**Image 1.** All lanes : Anti-Ephb1 Antibody (Center) at 1:1000 dilution Lane 1: mouse brain lysates Lane 2: mouse heart lysates Lane 3: rat brain lysates Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution Predicted band size : 110 kDa Blocking/Dilution buffer: 5 % NFDM/TBST.



#### Western Blotting

**Image 2.** Western blot analysis of lysates from A431, mouse NIH/3T3 cell line, mouse brain, rat brain tissue lysate(from left to right), using Ephb1 Antibody (Center) (ABIN6243653 and ABIN6577762). (ABIN6243653 and ABIN6577762) was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:10000 dilution was used as the secondary antibody. Lysates at 20 µg per lane.