

**Ephrin B2 Antibody**

□ Cat # NIVE2B-A

Rabbit Anti Human Ephrin B2 antibody

**SIZE:** 100 ug

Cell surface transmembrane ligand for Eph receptors, a family of receptor tyrosine kinases which are crucial for migration, repulsion and adhesion during neuronal, vascular and epithelial development. Binds promiscuously Eph receptors 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. Binds to receptor tyrosine kinase including EPHA4, EPHA3 and EPHB4. Together with EPHB4 plays a central role in heart morphogenesis and angiogenesis through regulation of cell adhesion and cell migration. EPHB4-mediated forward signaling controls cellular repulsion and segregation from EFNB2-expressing cells. May play a role in constraining the orientation of longitudinally projecting axons.

**Source of Antigen or Antibodies**

**Uniprot:** P52799

**Host:** Rabbit

**Clonality:** Polyclonal

**Purification:** Ammonium sulfate followed by peptide affinity purification

**Immunogen:** Synthetic peptide derived from Human

**Species Reactivity:** Human

**Cross reactivity:** Peptide used as an immunogen exhibits >90% with Mouse, Rat, Monkey, Goat, Sheep, Bovine, Dog, and Horse.

**Subcellular Location:** Membrane

**Recommended Secondary Antibody:** Goat anti-Rabbit IgG-HRP (**ADI cat#20320**)

**Negative Control:** Non-immune Rabbit IgG (**ADI cat# 20009-1**).

**Form & Storage of Antibodies**

**Affinity pure IgG**

□ Solution  
Concentration: 0.5 mg/ml                      Volume: 200 ul  
Supplied in PBS pH 7.4 + 0.1% BSA

□ Lyophilized powder  
**Reconstitute powder** in 200 ul distilled water to 0.5 mg/ml

**Storage:**

**Short-term:** 4°C for 1 month

**Long-term:** at -20°C or below in suitable aliquots after reconstitution for 1 year. Do not expose to multiple freeze/thaw cycles or store working, diluted solutions.

**Recommended Usage**

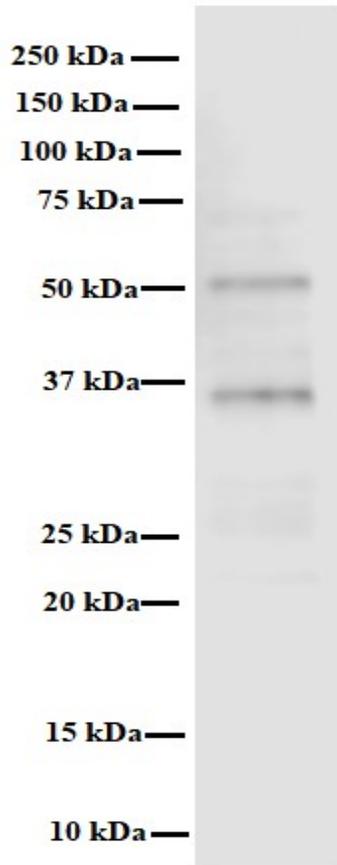
**Western Blotting:** 0.5-2 ug/ml  
Theoretical band size: 37 kDa  
Observed band size: ~35 kDa. Band size may represent mature Ephrin B2. 50 kDa band size has been reported elsewhere.

\*Above concentrations are a suggestion, user's must optimize assay based on their conditions.

*\*This product is for In vitro research use only.*

**Related materials available from ADI**

Catalog#	Description
NIV11-R-10	Recombinant (HEK) Nipah virus (NiV) Glycoprotein (aa: 71-602, >95% Pure, His-tag)
NIV11-S	Rabbit anti-Nipah virus (anti-NiV) Glycoprotein antiserum
NIV21-A	Rabbit anti-Nipah virus (anti-NiV) Nucleoprotein antibody, affinity pure
NIV21-R-25	Recombinant (E. coli) Nipah virus (NiV) Nucleoprotein (full length, >90% Pure, His-tag)
NIVE2B-A	182309IA



25 ug of a HeLa whole cell lysate was heated for 5 minutes at 95°C then separated on onto a 4-20% SDS-PAGE gel. The gel was run for ~1 hour and 30 minutes at 100V and transferred to a 0.2 um nitrocellulose membrane using the Mixed MW settings on a Transblot Turbo (Biorad). The blot was blocked for 1 hour at room temperature with 1% Fish plasma (Aquablock, EastCoastBio). **NIVE2B-A** was diluted with TBST+0.1% BSA to 1 ug/ml and incubated overnight at 4°C. Blot was washed with TBS-T 3 times for 5 minutes each. Goat anti-rabbit IgG HRP (**ADI cat#20320**) diluted 1:10,000 (50 ng/ml) in TBST+0.1% BSA and incubated for 1 hour at room temperature. The blot was washed with TBS-T 3 times for 5 minutes each. The blot was incubated with ADI Femto ECL substrate (**ADI cat#80210**) for 5 minutes then imaged on a CCD imaging system (LI-COR, C-Digit). Specific band is observed at ~35 kDa.