

Product datasheet

Anti-Ephrin B2 antibody ab131536

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Overview

Product name	Anti-Ephrin B2 antibody
Description	Rabbit polyclonal to Ephrin B2
Host species	Rabbit
Tested applications	Suitable for: WB, ICC/IF, Flow Cyt, IHC-P
Species reactivity	Reacts with: Mouse, Rat, Human
Immunogen	Synthetic peptide corresponding to Human Ephrin B2 aa 328-332 conjugated to keyhole limpet haemocyanin. Sequence: N-I-Y-Y-K Database link: P52799
	Run BLAST with Run BLAST with
Positive control	HeLa cells; HT29 cell extract

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.
Storage buffer	pH: 7.40 Preservative: 0.02% Sodium azide Constituents: 49% PBS, 50% Glycerol, 0.88% Sodium chloride Note: PBS without Mg ²⁺ and Ca ²⁺
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab131536** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/500 - 1/1000. Predicted molecular weight: 36 kDa.
ICC/IF		1/100 - 1/200.
Flow Cyt	★★★★☆	1/100. ab171870 - Rabbit polyclonal IgG, is suitable for use as an isotype control with this antibody.
IHC-P		1/100 - 1/200. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.

Target

Function

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.
(Microbial infection) Acts as a receptor for Hendra virus and Nipah virus.

Tissue specificity

Lung and kidney.

Sequence similarities

Belongs to the ephrin family.
Contains 1 ephrin RBD (ephrin receptor-binding) domain.

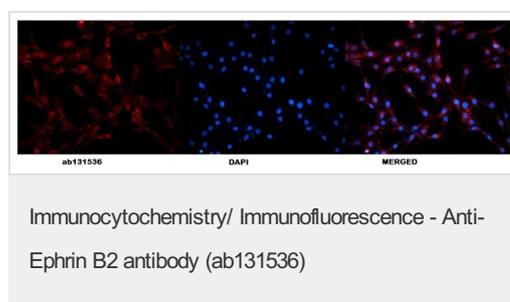
Post-translational modifications

Inducible phosphorylation of tyrosine residues in the cytoplasmic domain.

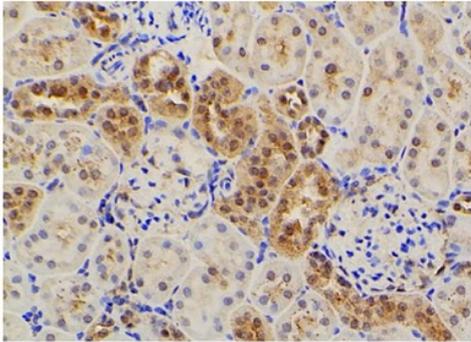
Cellular localization

Membrane.

Images

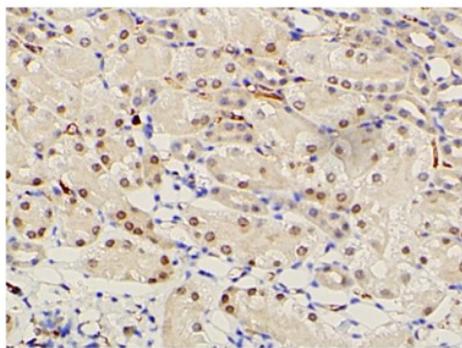


ab131536 staining Ephrin B2 in formalin-fixed, paraffin embedded rat C6 cells. Samples were incubated with primary antibody at 1/75 dilution. A Goat anti-rabbit IgG H&L (1/50) was used as the secondary antibody.



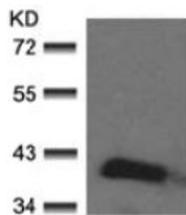
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Ephrin B2 antibody (ab131536)

Immunohistochemical analysis of rat kidney tissue sections at 1/100 dilution. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22°C. A HRP-conjugated goat anti-rabbit antibody was used as the secondary.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Ephrin B2 antibody (ab131536)

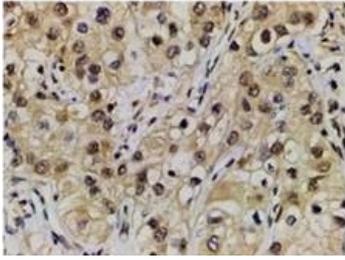
Immunohistochemical analysis of mouse kidney tissue sections at 1/100. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22°C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



Western blot - Anti-Ephrin B2 antibody (ab131536)

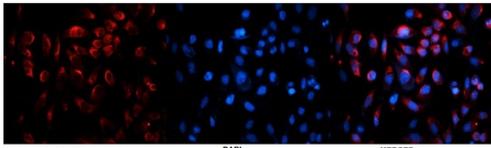
Anti-Ephrin B2 antibody (ab131536) at 1/500 dilution + HT29 cell extract

Predicted band size: 36 kDa



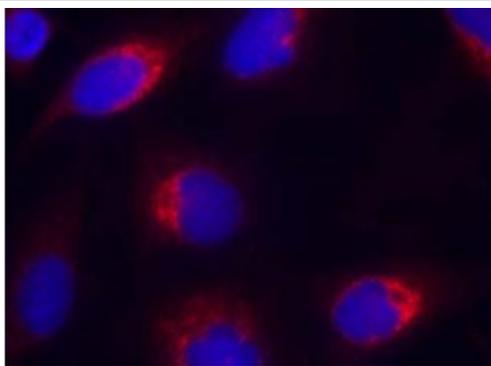
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Ephrin B2 antibody (ab131536)

Immunohistochemical analysis of Human renal clear cell carcinoma tissue sections labeling Ephrin B2 with ab131536 at 1/200. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. the tissue was then blocked and incubated with the antibody for 1.5 hours at 22°C. A HRP-conjugated Goat Anti-Rabbit antibody was used as the secondary.



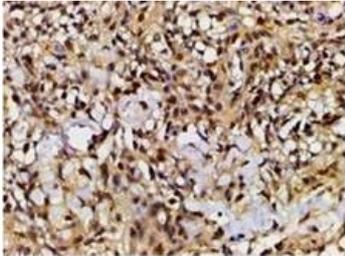
Immunocytochemistry/ Immunofluorescence - Anti-Ephrin B2 antibody (ab131536)

ab131536 staining Ephrin B2 in formalin-fixed, paraffin embedded HeLa cells by ICC/IF (Immunocytochemistry/Immunofluorescence). Samples were incubated with primary antibody at 1/75 dilution. A Goat anti-rabbit IgG H&L (1/50 dilution) was used as the secondary antibody.



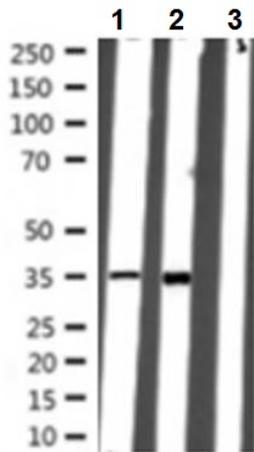
Immunocytochemistry/ Immunofluorescence - Anti-Ephrin B2 antibody (ab131536)

Immunofluorescence analysis of methanol-fixed HeLa cells labelling Ephrin B2 with ab131536 at 1/100 dilution.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Ephrin B2 antibody (ab131536)

Immunohistochemical analysis of Human meningeal carcinomatosis (MS) tissue sections labeling Ephrin B2 with ab131536 at 1/200. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22°C. A HRP-conjugated Goat Anti-Rabbit antibody was used as the secondary.



Western blot - Anti-Ephrin B2 antibody (ab131536)

All lanes : Anti-Ephrin B2 antibody (ab131536) at 1/1000 dilution

Lane 1 : Rat spleen tissue lysate

Lane 2 : Mouse liver tissue lysate

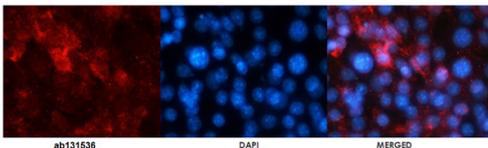
Lane 3 : Peptide blocked mouse liver tissue lysate

Lysates/proteins at 40 µg per lane.

Predicted band size: 36 kDa

Observed band size: 37 kDa

[why is the actual band size different from the predicted?](#)



Immunocytochemistry/ Immunofluorescence - Anti-Ephrin B2 antibody (ab131536)

Immunocytochemistry/Immunofluorescence analysis of TM 3 cells labelling Ephrin B2 with ab131536 at a 1/75 dilution. A Cy3-conjugated goat anti-rabbit IgG (H+L) was used as the secondary antibody at a 1/50 dilution.

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