

Product datasheet

Anti-Eph receptor B1 + Eph receptor B2 + Eph receptor B3 + Eph receptor B4 antibody ab64820

★★★★★ 2 Abreviews 3 References 2 Images

Overview

Product name	Anti-Eph receptor B1 + Eph receptor B2 + Eph receptor B3 + Eph receptor B4 antibody
Description	Rabbit polyclonal to Eph receptor B1 + Eph receptor B2 + Eph receptor B3 + Eph receptor B4
Host species	Rabbit
Specificity	ab64820 detects endogenous levels of total Eph receptor B4 protein. We have not performed cross-reactivity testing to other class B Eph receptors. The immunogen has high homology to EPHB1(100%), EPHB3 (100%), EPHB2 (92%).
Tested applications	Suitable for: IHC-P, ELISA, WB
Species reactivity	Reacts with: Mouse, Human
Immunogen	Synthetic peptide derived from internal region of human Eph receptor B4.
Positive control	293 and Jurkat cell extracts.

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: PBS, 50% Glycerol, 0.87% Sodium chloride
Purity	Without Mg ²⁺ and Ca ²⁺ Immunogen affinity purified
Purification notes	ab64820 was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Clonality	Polyclonal
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab64820** in the following tested applications.

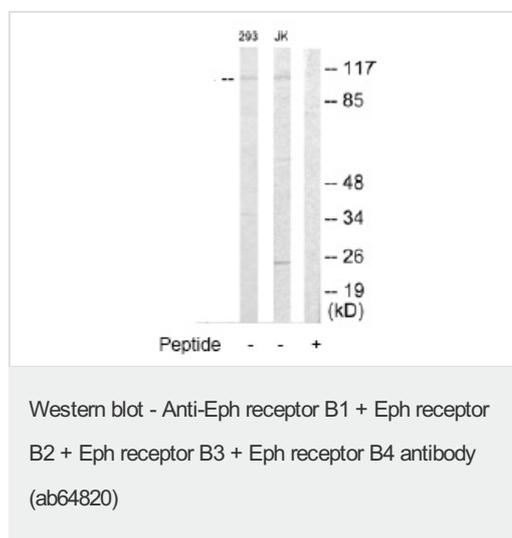
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-P	★★★★★	Use a concentration of 5 µg/ml. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
ELISA		1/20000.
WB	★★★☆☆	1/500 - 1/1000. Detects a band of approximately 108 kDa (predicted molecular weight: 108 kDa).

Target

Function	Receptor for members of the ephrin-B family. Binds to ephrin-B1, -B2 and -B3. Binding with the guidance cue ephrin-B2 at the optic chiasm midline redirect ventrotemporal (VT) retinal ganglion cells (RGCs) axons ipsilaterally. May be involved in cell-cell interactions in the nervous system.
Tissue specificity	Preferentially expressed in brain.
Sequence similarities	Belongs to the protein kinase superfamily. Tyr protein kinase family. Ephrin receptor subfamily. Contains 2 fibronectin type-III domains. Contains 1 protein kinase domain. Contains 1 SAM (sterile alpha motif) domain.
Cellular localization	Membrane.

Images



All lanes : Anti-Eph receptor B1 + Eph receptor B2 + Eph receptor B3 + Eph receptor B4 antibody (ab64820) at 1/500 dilution

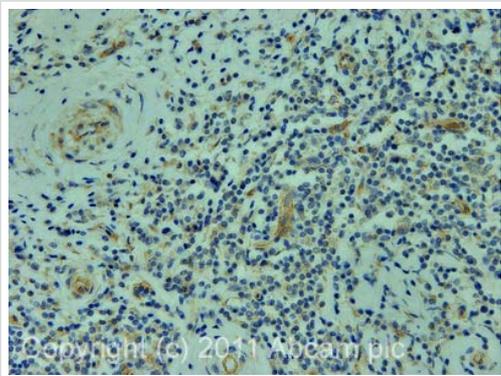
Lane 1 : 293 cell extract at 30 µg

Lane 2 : Jurkat cell extract at 30 µg

Lane 3 : immunising peptide at 10 µg

Predicted band size: 108 kDa

Observed band size: 108 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Eph receptor B1 + Eph receptor B2 + Eph receptor B3 + Eph receptor B4 antibody (ab64820)

IHC image of ab64820 staining in human normal lymphoid formalin fixed paraffin embedded tissue section, performed on a Leica Bond™ system using the standard protocol F. The section was pre-treated using heat mediated antigen retrieval with EDTA (pH9, epitope retrieval solution 2) for 20 mins. The section was then incubated with ab64820, 5µg/ml, for 15 mins at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

For other IHC staining systems (automated and non-automated) customers should optimize variable parameters such as antigen retrieval conditions, primary antibody concentration and antibody incubation times.

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