

Product datasheet

Anti-Eph receptor B2 antibody ab70014

1 Image

Overview

Product name	Anti-Eph receptor B2 antibody
Description	Rabbit polyclonal to Eph receptor B2
Host species	Rabbit
Tested applications	Suitable for: WB, ELISA
Species reactivity	Reacts with: Human
Immunogen	Synthetic peptide derived from the C-terminal of Human Eph receptor B2
Positive control	Extracts from Jurkat cells.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Storage buffer	Preservative: 0.02% Sodium Azide Constituents: 50% Glycerol, PBS, 150mM Sodium chloride, pH 7.4
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab70014** in the following tested applications.

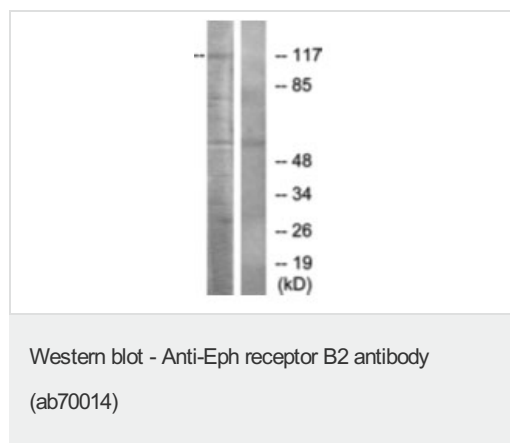
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/500 - 1/1000. Detects a band of approximately 117 kDa (predicted molecular weight: 117 kDa).
ELISA		1/10000.

Target

Function	Receptor for members of the ephrin-B family. Phosphorylates ARHGEF15, leading to its ubiquitination and degradation by the proteasome which promotes EFNB1-dependent synapse formation. Can function in aspects of retinal ganglion cell axon guidance to the optic disk even when lacking its tyrosine kinase domain. Acts as a tumor suppressor.
Tissue specificity	Brain, heart, lung, kidney, placenta, pancreas, liver and skeletal muscle. Preferentially expressed in fetal brain.
Involvement in disease	Defects in EPHB2 may be a cause of susceptibility to prostate cancer (PC) [MIM:176807]. It is a malignancy originating in tissues of the prostate. Most prostate cancers are adenocarcinomas that develop in the acini of the prostatic ducts. Other rare histopathologic types of prostate cancer that occur in approximately 5% of patients include small cell carcinoma, mucinous carcinoma, prostatic ductal carcinoma, transitional cell carcinoma, squamous cell carcinoma, basal cell carcinoma, adenoid cystic carcinoma (basaloid), signet-ring cell carcinoma and neuroendocrine carcinoma. Note=EPHB2 mutations have been found in a prostate cancer cell line derived from a brain metastasis.
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 B2 antibody (ab70014) at 1/500 dilution

Lane 1 : extracts from Jurkat cells

Lane 2 : extracts from Jurkat cells with immunizing peptide at 10 µg

Lysates/proteins at 30 µg per lane.

Predicted band size: 117 kDa

Observed band size: 117 kDa

Additional bands at: 55 kDa. We are unsure as to the identity of these extra bands.

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