

Product datasheet

Human EPHB4 (Eph receptor B4/HTK) knockout HEK-293T cell lysate ab257429

3 Images

Overview

Product name	Human EPHB4 (Eph receptor B4/HTK) knockout HEK-293T cell lysate
Product overview	Knockout cell lysate achieved by CRISPR/Cas9.
Parental Cell Line	HEK293T
Organism	Human
Mutation description	Knockout achieved by using CRISPR/Cas9, 1 bp insertion in exon3.
Passage number	<20
Knockout validation	Sanger Sequencing, Western Blot (WB)
Reconstitution notes	To use as WB control, resuspend the lyophilizate in 50 µL of LDS* Sample Buffer to have a final concentration of 2 mg/ml. For reducing conditions, we recommend a final concentration of 0.1 M DTT. <i>*Usage of SDS sample buffer is not recommended with these lyophilized lysates.</i>

Notes

Lysate preparation: Our lysates are made using RIPA buffer to which we add a protease inhibitor cocktail and phosphatase inhibitor cocktail (ratio: 300:100:10). *This means that the protein of interest is denatured.* If you require a native form of the protein please use the live cell version - found [here](#). Please refer to our lysis protocol for further details on how our lysates are prepared.

User storage instructions: Lyophilizate may be stored at 4°C. After reconstitution, store at -20°C for short-term storage or -80°C for long-term storage.

Access thousands of knockout cell lysates, generated from commonly used cancer cell lines.

[See here for more information on knockout cell lysates.](#)

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Tested applications **Suitable for:** WB

Properties

Storage instructions Store at -80°C. Please refer to protocols.

Components	1 kit
ab260233 - Human EPHB4 knockout HEK293T cell lysate	1 x 100µg
ab255553 - Human wild-type HEK293T cell lysate	1 x 100µg

Cell type epithelial

STR Analysis Amelogenin X D5S818: 8, 9 D13S317: 12, 14 D7S820: 11 D16S539: 9, 13 vWA: 16, 19 TH01: 7, 9.3 TPOX: 11 CSF1PO: 11, 12

Target

Function Receptor for members of the ephrin-B family. Binds to ephrin-B2. May have a role in events mediating differentiation and development.

Tissue specificity Abundantly expressed in placenta and in a range of primary tissues and malignant cell lines. Expressed in fetal, but not adult, brain, and in primitive and myeloid, but not lymphoid, hematopoietic cells.

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.

Post-translational modifications Autophosphorylated.

Cellular localization Membrane.

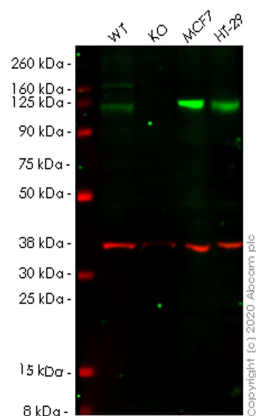
Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab257429 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		Use at an assay dependent concentration. Predicted molecular weight: 108 kDa.

Images



Western blot - Human EPHB4 knockout HEK293T cell lysate (ab257429)

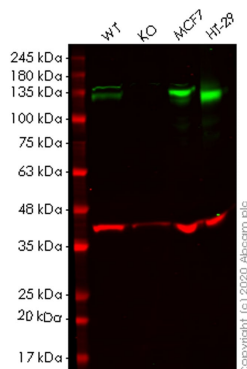
Lane 1: Wild-type HEK293T cell lysate (20 ug)

Lane 2: EPHB4 knockout HEK293T cell lysate (20 ug)

Lane 3: MCF7 cell lysate (20 ug)

Lane 4: HT-29 cell lysate (20 ug)

ab254300 was shown to specifically react with Eph receptor B4/HTK in wild-type HEK293T cells. Loss of signal was observed when knockout cell line **ab266733** (knockout cell lysate ab257429) was used. Wild-type and Eph receptor B4/HTK knockout samples were subjected to SDS-PAGE. **ab254300** and Anti-GAPDH antibody [6C5] - Loading Control (**ab8245**) were incubated overnight at 4°C at 1 in 1000 dilution and 1 in 20000 dilution respectively. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed (**ab216773**) and Goat anti-Mouse IgG H&L (IRDye® 680RD) preadsorbed (**ab216776**) secondary antibodies at 1 in 20000 dilution for 1 hour at room temperature before imaging.



Western blot - Human EPHB4 knockout HEK293T cell lysate (ab257429)

Lane 1: Wild-type HEK293T cell lysate (20 ug)

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Lane 4: HT-29 cell lysate (20 ug)

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Mut  GACCTCCTTCTCTGCACAGTGGGAGGAAGT GAGCGGCCTGGATGAGGAACAGCACAGCG
      |||
WT   GACCTCCTTCTCTGCACAGTGGGAGGAAGT GAGCGGCCTGGATGAGGAACAGCACAGCG
  
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Sanger Sequencing - Human EPHB4 knockout HEK293T cell lysate (ab257429)

Homozygous: 1 bp insertion in exon3

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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