Product datasheet

Anti-DLL4 antibody ab7280

Overview

Product name                Anti-DLL4 antibody
Description                Rabbit polyclonal to DLL4
Host species               Rabbit
Tested applications        Suitable for: IHC-P, WB, ICC/IF, ELISA
Species reactivity         Reacts with: Mouse, Human
Immunogen                  Synthetic peptide: AWHAPGDDLPEAL-C conjugated to KLH, corresponding to amino acids 121-134 of Human Delta4.
Positive control           Recombinant human DLL4 protein (ab84081)

Properties

Form                        Liquid
Storage instructions        Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer              pH: 7.20
                            Preservative: 0.01% Sodium azide
                            Constituents: 0.42% Potassium phosphate, 0.87% Sodium chloride
Purity                      Immunogen affinity purified
Clonality                   Polyclonal
Isotype                     IgG

Applications

Our Abpromise guarantee covers the use of ab7280 in the following tested applications.
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

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Function
Plays a role in the Notch signaling pathway. Activates Notch-1 and Notch-4.

Tissue specificity
Expressed in vascular endothelium.

Sequence similarities
Contains 1 DSL domain. Contains 8 EGF-like domains.

Domain
The Delta-Serrate-Lag2 (DSL) domain is required for binding to the Notch receptor.

Post-translational modifications
Ubiquitinated by MIB (MIB1 or MIB2), leading to its endocytosis and subsequent degradation.

Cellular localization
Membrane.

Images

**Western blot** - Anti-DLL4 antibody (ab7280)

All lanes: Anti-DLL4 antibody (ab7280) at 1/1000 dilution

Lane 1: Recombinant human DLL4 at 0.05 µg
Lane 2: Whole cell lysate from HEK293 over-expressing human DLL4 at 10 µg
Lane 3: Whole cell lysate from control HEK293 at 10 µg

Secondary

All lanes: Peroxidase labelled anti-rabbit antibody at 1/400000 dilution

Performed under reducing conditions.

Predicted band size: 74 kDa

This blot was produced under denaturing, reducing conditions. After transfer, the membrane was blocked for half an hour before being
incubated overnight at 4°C with rabbit polyclonal to DLL4 (ab7280; diluted 1:1000). Antibody binding was detected using peroxidase labelled anti-rabbit antibody (diluted 1:40,000) for half an hour at room temperature and visualised using ECL development solution.

IHC image of ab7280 staining in human kidney 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 sodium citrate buffer (pH6, epitope retrieval solution 1) for 20 mins. The section was then incubated with ab7280, 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.

ICC/IF image of ab7280 stained Hek293 cells. The cells were 4% PFA fixed (10 min) and then incubated in 1%BSA / 10% normal goat serum / 0.3M glycine in 0.1% PBS-Tween for 1h to permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody (ab7280, 1µg/ml) overnight at +4°C. The secondary antibody (green) was Alexa Fluor® 488 goat anti-rabbit IgG (H+L) used at a 1/1000 dilution for 1h. Alexa Fluor® 594 WGA was used to label plasma membranes (red) at a 1/200 dilution for 1h. DAPI was used to stain the cell nuclei (blue) at a concentration of 1.43µM.

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