abcam

Product datasheet

Anti-DLL3 antibody [EPR22592-18] - BSA and Azide free ab255694

Recombinant RabMAb

9 Images

Overview

Product name	Anti-DLL3 antibody [EPR22592-18] - BSA and Azide free
Description	Rabbit monoclonal [EPR22592-18] to DLL3 - BSA and Azide free
Host species	Rabbit
Specificity	The mouse recommendation is based on the IHC-P results. We do not guarantee WB for mouse.
Tested applications	**Suitable for:** Flow Cyt (Intra), WB, IHC-P, ICC/IF, IP
Species reactivity	**Reacts with:** Mouse, Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: HEK-293T transfected with DLL3 (WT) expression vector containing a myc-His-tag®, whole cell lysate. IHC-P: Human small cell lung cancer and glioma tissue; Mouse embryonic brain of day 14.5 tissue. ICC/IF: HEK-293T cells. Flow: HEK-293T cells. IP: HEK-293T transfected with DLL3 expression construct containing a myc-His-tag® whole cell lysate.
General notes	ab255694 is the carrier-free version of **ab229902**. Our **carrier-free** antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency. This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications. Use our **conjugation kits** for antibody conjugates that are ready-to-use in as little as 20 minutes with <1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold. This product is compatible with the Maxpar® Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar® is a trademark of Fluidigm Canada Inc. This product is a recombinant monoclonal antibody, which offers several advantages including: - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production

For more information **see here**.

Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to **RabMAb® patents**.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C. Do Not Freeze.
Storage buffer	pH: 7.2 Constituent: PBS
Carrier free	Yes
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR22592-18
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab255694 in the following tested applications.

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

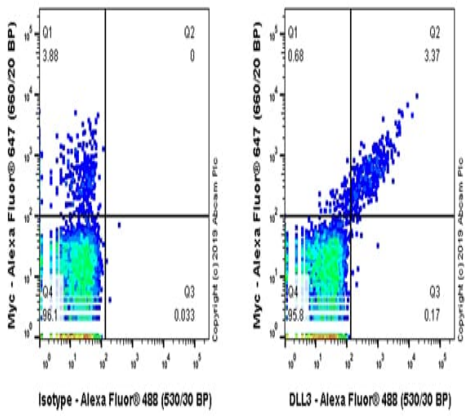
Application	Abreviews	Notes
Flow Cyt (Intra)		Use at an assay dependent concentration.
WB		Use at an assay dependent concentration. Detects a band of approximately 75 kDa (predicted molecular weight: 65 kDa).
IHC-P		Use at an assay dependent concentration. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
ICC/IF		Use at an assay dependent concentration.
IP		Use at an assay dependent concentration.

Target

Function	Inhibits primary neurogenesis. May be required to divert neurons along a specific differentiation pathway. Plays a role in the formation of somite boundaries during segmentation of the paraxial mesoderm.
Involvement in disease	Spondylocostal dysostosis 1
Sequence similarities	Contains 1 DSL domain. Contains 6 EGF-like domains.
Domain	The 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



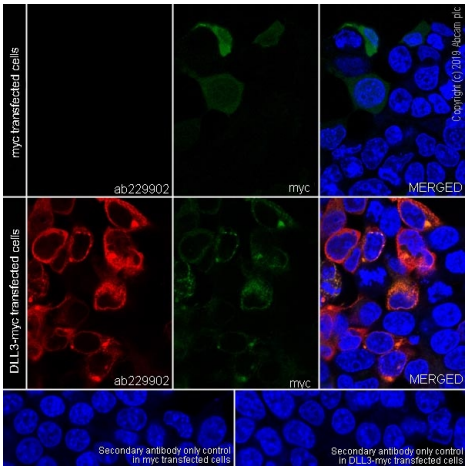
Flow Cytometry (Intracellular) - Anti-DLL3 antibody [EPR22592-18] - BSA and Azide free (ab255694)

Intracellular flow cytometric analysis of 4% paraformaldehyde fixed, 90% methanolpermeabilized HEK-293T (human epithelial cell line from embryonic kidney transformed with large T antigen) cells transfected with DLL3 expression construct containing a myc-His-tag® labelling DLL3 with **ab229902** at 1/600 dilution (Right) compared with a Rabbit monoclonal IgG (**ab172730**, Left) isotype control.

Goat anti rabbit IgG (Alexa Fluor®488, **ab150077**) at 1/2000 dilution was used as the secondary antibody.

Cells were stained with rabbit IgG (Left) or **ab229902** (Right). Then stained with anti-myc-tag conjugated to Alexa Fluor®647.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab229902**).

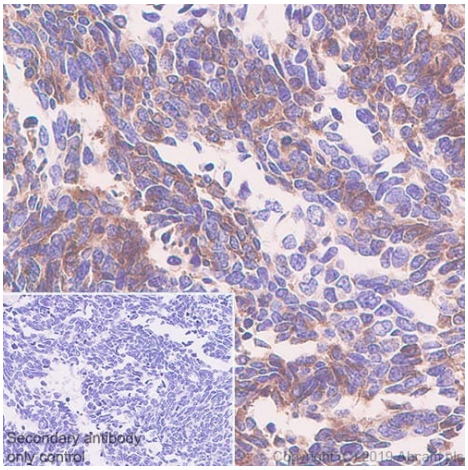


Immunocytochemistry/ Immunofluorescence - Anti-DLL3 antibody [EPR22592-18] - BSA and Azide free (ab255694)

Immunofluorescent analysis of 4% Paraformaldehyde-fixed, 0.1% TritonX-100 permeabilized HEK-293T (human epithelial cell line from embryonic kidney transformed with large T antigen) cells labelling DLL3 with **ab229902** at 1/100 dilution, followed by **ab150080** AlexaFluor®594 Goat anti-Rabbit secondary antibody at 1/500 dilution (Green). An anti-myc-tag mAb (Alexa Fluor® 488 Conjugate) was used at 1/100 dilution. Confocal image showing positive staining in HEK-293T cells transfected with DLL3 expression construct containing a myc-His-tag® is observed. The Nuclear counterstain was DAPI (Blue).

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is **ab150080** AlexaFluor®594 Goat anti-Rabbit secondary at 1/500 dilution.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab229902**).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-DLL3 antibody [EPR22592-18] - BSA and Azide free (ab255694)

Immunohistochemical analysis of paraffin-embedded human small cell lung cancer tissue labeling DLL3 with **ab229902** at 1/100 dilution followed by a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**). Positive staining on human small cell lung cancer (PMID: 28487384, 30397180) is observed.

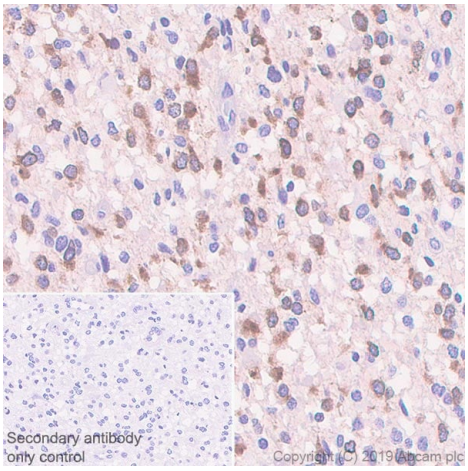
Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution 2) for 20 mins.

The section was incubated with **ab229902** for 30 mins at room temperature.

The immunostaining was performed on a Leica Biosystems BOND® RX instrument. Counterstained with Hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**).

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab229902**).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-DLL3 antibody [EPR22592-18] - BSA and Azide free (ab255694)

Immunohistochemical analysis of paraffin-embedded human glioma tissue labeling DLL3 with **ab229902** at 1/100 dilution followed by a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**). Positive staining on human glioma (PMID: 30397180) is observed.

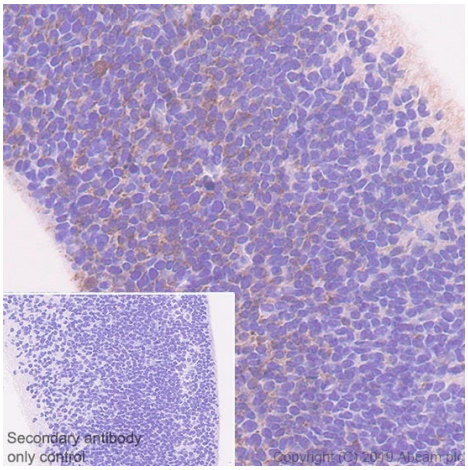
The section was incubated with **ab229902** for 30 mins at room temperature.

The immunostaining was performed on a Leica Biosystems BOND® RX instrument. Counterstained with Hematoxylin.

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution 2) for 20 mins.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**).

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab229902**).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-DLL3 antibody [EPR22592-18] - BSA and Azide free (ab255694)

Immunohistochemical analysis of paraffin-embedded mouse embryonic brain of day 14.5 tissue labeling DLL3 with **ab229902** at 1/100 dilution followed by a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**). Positive staining on mouse embryonic brain of day 14.5 (PMID: 19389376) is observed.

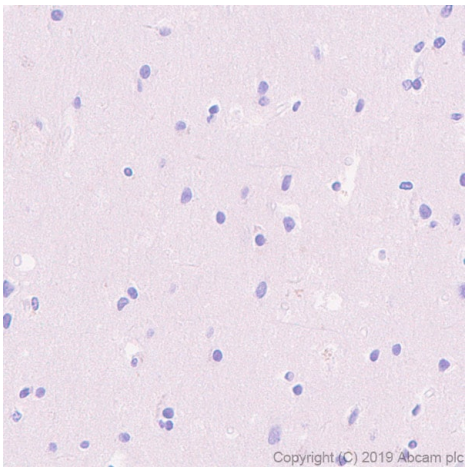
The section was incubated with **ab229902** for 30 mins at room temperature.

The immunostaining was performed on a Leica Biosystems BOND® RX instrument. Counterstained with Hematoxylin.

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution 2) for 20 mins.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**).

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab229902**).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-DLL3 antibody [EPR22592-18] - BSA and Azide free (ab255694)

Immunohistochemical analysis of paraffin-embedded human cerebrum tissue labeling DLL3 with **ab229902** at 1/100 dilution followed by a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**). **Negative control:** no staining on human cerebrum (PMID: 30397180) is observed.

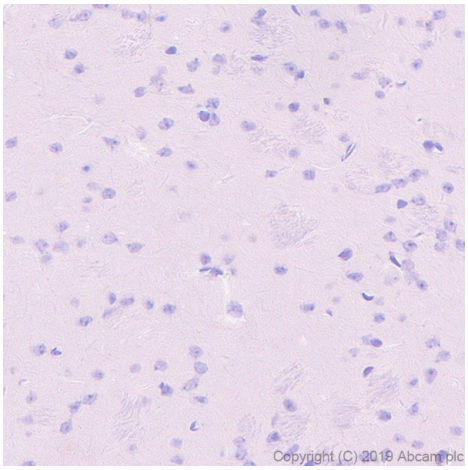
The section was incubated with **ab229902** for 30 mins at room temperature.

The immunostaining was performed on a Leica Biosystems BOND® RX instrument. Counterstained with Hematoxylin.

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution 2) for 20 mins.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**).

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab229902**).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-DLL3 antibody [EPR22592-18] - BSA and Azide free (ab255694)

Immunohistochemical analysis of paraffin-embedded mouse cerebrum tissue labeling DLL3 with **ab229902** at 1/100 dilution followed by a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**). **Negative control:** no staining on mouse cerebrum (PMID: 30397180) is observed.

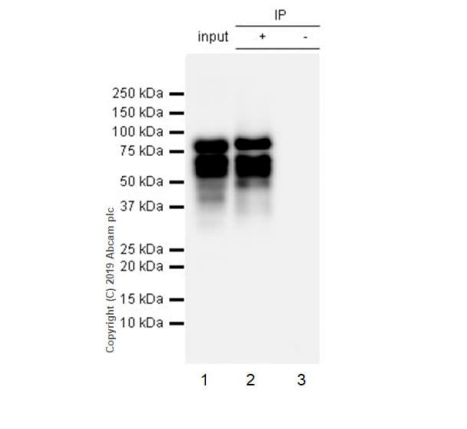
The section was incubated with **ab229902** for 30 mins at room temperature.

The immunostaining was performed on a Leica Biosystems BOND® RX instrument. Counterstained with Hematoxylin.

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution 2) for 20 mins.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**).

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab229902**).



Immunoprecipitation - Anti-DLL3 antibody [EPR22592-18] - BSA and Azide free (ab255694)

DLL3 was immunoprecipitated from 0.35 mg HEK-293T (human embryonic kidney epithelial cell) transfected with DLL3 expression construct containing a myc-His-tag® whole cell lysate with **ab229902** at 1/30 dilution. Western blot was performed on the immunoprecipitate using **ab229902** 1/1000 dilution. VeriBlot for IP Detection Reagent (HRP) (**ab131366**) was used as the secondary antibody at 1/5000 dilution.

Lane 1: HEK-293T (human embryonic kidney epithelial cell) transfected with DLL3 expression construct containing a myc-His-tag® whole cell lysate 10µg

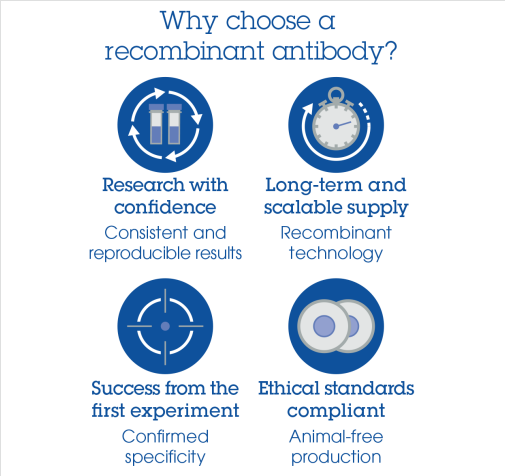
Lane 2: **ab229902** IP in HEK-293T transfected with DLL3 expression construct containing a myc-His-tag® whole cell lysate (Input).

Lane 3: Rabbit monoclonal IgG (**ab172730**) instead of **ab229902** in HEK-293T transfected with DLL3 expression construct containing a myc-His-tag® whole cell lysate.

Blocking and dilution buffer and concentration: 5% NFDM/TBST.

Exposure time: 15 seconds.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab229902**).



Anti-DLL3 antibody [EPR22592-18] - BSA and Azide free (ab255694)

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