

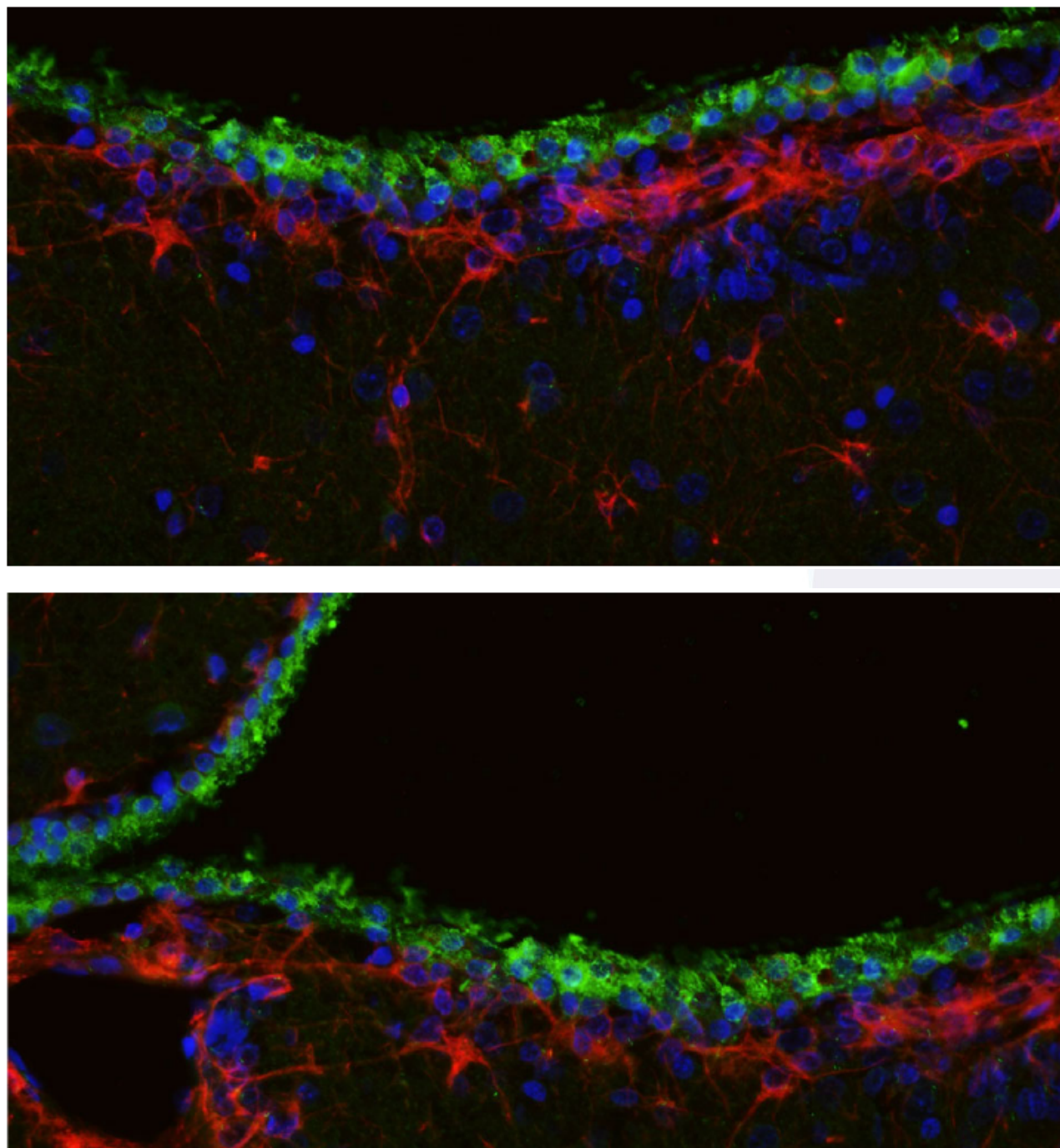
PRODUCT DATASHEET

Anti-Arl13b (N295B/66) Recombinant Guinea Pig Chimeric mAb

Overview

Catalog #	74-287 (100 µL size) or 74-287-020 (20 µL size)
Conjugate	Unconjugated
Isotype	IgG
Clone Number	N295B/66
Concentration	1 mg/mL
Host Species	Guinea Pig Recombinant
Format	Purified by affinity chromatography
Buffer	1X PBS, 0.05% Sodium Azide pH 7.4
Applications	WB, IHC, ICC, ELISA
Species Reactivity	Human, Mouse, Non-Human Primate, Rat, and Zebrafish
Immunogen	Fusion protein amino acids 208-427 (C-terminus) of mouse Arl13b (accession number Q640N2) produced recombinantly in E. Coli
Molecular Weight	50 kDa

Figures



Immunohistochemistry for detection of Arl13b in adult rat brain lateral ventricle region co-stained with anti-GFAP Recombinant Chicken Monoclonal antibody [N206A/8] (Cat No. 78-240). Tissue was fixed with 4% paraformaldehyde and paraffin embedded. Heat induced antigen retrieval was performed using citrate buffer (Cat. AR-6544) and then blocked with Immuno Protein Blocking Solution with Goat Serum (AR-6591). The anti-Arl13b guinea pig antibody (Cat. 74-240, 1:100) and anti-GFAP chicken antibody (1:500) were incubated with the sample at 4C overnight. After washing with PBST, the sections were stained using goat anti-guinea pig 488 (green) and goat anti-chicken IgY CF594 (red) secondary antibodies. DAPI nuclear stain (blue) shows cell nuclei. Anti-Arl13b specifically stains the ciliated cells surrounding the lateral ventricle.

Details

Target Description	ADP-ribosylation factor-like protein 13B (ARL13B), also known as ADP-ribosylation factor-like protein 2-like 1. Arl13B is a small GTPase with both N-terminal and C-terminal guanine nucleotide- binding motifs. Arl13B is localized to the membrane of cilia and expressed in Neuroepithelial cells and developing radial glia of the developing cerebral cortex. Mutations in this gene are the cause of Joubert syndrome 8.
Specificity	Does not cross-react with Arl13a (based on KO validation results)
Purification Method	This recombinant antibody is a chimeric antibody created by replacing the mouse heavy and light constant regions of clone N295B/66 with guinea pig IgG heavy and light constant regions. As such this antibody retains the same binding performance as the original clone N295B/66 but can be detected using standard anti-guinea pig secondary antibodies allowing flexibility for multiplexing applications. This antibody is expressed recombinantly in mammalian cells and then affinity purified from the cell culture media.
Quality Control Tests	Each new lot of antibody is quality control tested by Western blot on rat whole brain lysate and confirmed to stain the expected molecular weight band.
Storage	Aliquot and store at $\leq -20^{\circ}\text{C}$ for long term storage. For short term storage, store at $2-8^{\circ}\text{C}$. For maximum recovery of product, centrifuge the vial prior to removing the cap.

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