ARG45241
anti-ARL13B antibody

Package: 50 µg
Store at: -20°C

Summary

Product Description	Polyclonal antibody recognizes ARL13B
Tested Reactivity	Hu, Ms, Rat
Tested Application	FACS, ICC/IF, IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Target Name	ARL13B
Species	Human
Immunogen	Recombinant protein containing to human ARL13B.
Conjugation	Un-conjugated
Alternate Names	ARL13B; ARF Like GTPase 13B; ADP Ribosylation Factor Like GTPase 13B; ARL2L1; JBTS8; ADP-Ribosylation Factor-Like Protein 13B; ADP-Ribosylation Factor-Like 2-Like 1; ARL2-Like Protein 1; DKFZp761H079; ADP-Ribosylation Factor-Like Protein 2-Like 1; ADP-Ribosylation Factor Like GTPase 13B; ADP-Ribosylation Factor-Like 13B

Application Instructions

Application table	Application	Dilution
	FACS	1 - 3 µg/10^6 cells
	ICC/IF	5 µg/ml
	IHC-P	2-5 µg/ml
	WB	0.25-0.5 µg/ml

Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.
Observed Size	55 kDa

Properties

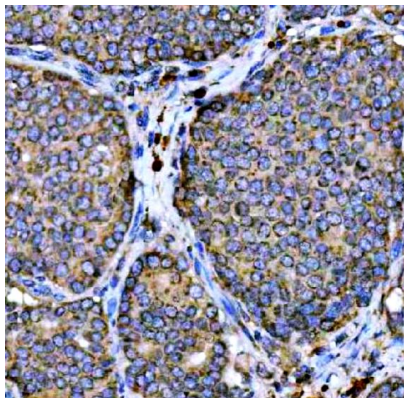|	
Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	0.2% Na2HPO4, 0.9% NaCl and 4% Trehalose.
Stabilizer	4% Trehalose
Concentration	0.5 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated

freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

| Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

| Gene Symbol	ARL13B
Gene Full Name	ARF Like GTPase 13B
Background	This gene encodes a member of the ADP-ribosylation factor-like family. The encoded protein is a small GTPase that contains both N-terminal and C-terminal guanine nucleotide-binding motifs. This protein is localized in the cilia and plays a role in cilia formation and in maintenance of cilia. Mutations in this gene are the cause of Joubert syndrome 8. Alternate splicing results in multiple transcript variants. [provided by RefSeq, Mar 2010]
Function	Cilium-specific protein required to control the microtubule-based, ciliary axoneme structure. May act by maintaining the association between IFT subcomplexes A and B. Binds GTP but is not able to hydrolyze fit; the GTPase activity remains unclear. Required to pattern the neural tube. Involved in cerebral cortex development: required for the initial formation of a polarized radial glial scaffold, the first step in the construction of the cerebral cortex, by regulating ciliary signaling. Regulates the migration and placement of postmitotic interneurons in the developing cerebral cortex. Plays a role in ciliar trafficking of phosphatidylinositol phosphatase INPP5E in ciliogenesis. [UniProt]
Calculated Mw	49 kDa
PTM	Isopeptide bond ; Lipoprotein ; Palmitate ; Ubl conjugation. [UniProt]
Cellular Localization	Cell membrane ; Cell projection ; Cilium ; Cytoplasm ; Cytoskeleton ; Membrane. [UniProt]

Images

ARG45241 anti-ARL13B antibody IHC-P image

Immunohistochemistry: Human breast cancer stained with ARG45241 anti-ARL13B antibody at 2 µg/ml dilution.
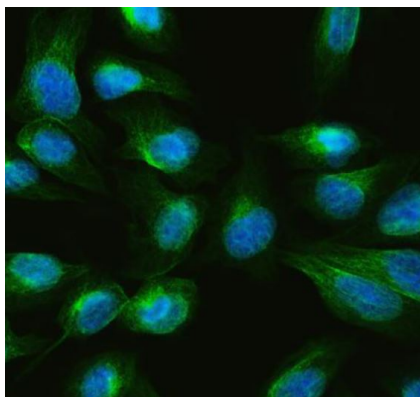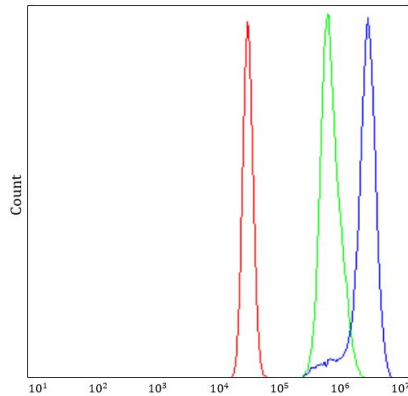

ARG45241 anti-ARL13B antibody ICC/IF image

Immunofluorescence: U20S stained with ARG45241 anti-ARL13B antibody at 5 ug/ml dilution.
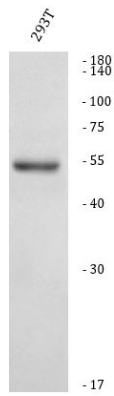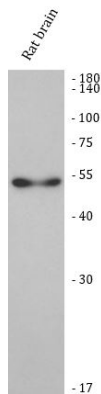
ARG45241 anti-ARL13B antibody WB image

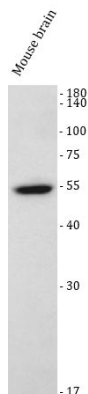Western blot: 293T stained with ARG45241 anti-ARL13B antibody at 0.5 μg/ml dilution.

ARG45241 anti-ARL13B antibody FACS image

Flow Cytometry: K562 stained with ARG45241 anti-ARL13B antibody at 1 μg/10^6 cells dilution.

ARG45241 anti-ARL13B antibody WB image

Western blot: Rat brain stained with ARG45241 anti-ARL13B antibody at 0.5 μg/ml dilution.

ARG45241 anti-ARL13B antibody WB image

Western blot: Mouse brain stained with ARG45241 anti-ARL13B antibody at 0.5 μg/ml dilution.