ARL13B Recombinant antibody

Catalog Number:82834-2-RR

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Basic Information

Catalog Number: 82834-2-RR	**GenBank Accession Number:** BC094725	**Purification Method:** Protein A purification
Size: 1000 ug/ml	**GeneID (NCBI):** 200894	**CloneNo.:** 3H5
Source: Rabbit	**UNIPROT ID:** Q3SXY8	**Recommended Dilutions:** IF/ICC 1:200-1:800
Isotype: IgG	**Full Name:** ADP-ribosylation factor-like 13B	
Immunogen Catalog Number: AG12015	**Calculated MW:** 48 kDa	

Applications

Tested Applications:
IF/ICC, ELISA

Species Specificity:
human

Positive Controls:

IF/ICC : Starvation treated hTERT-RPE1 cells, hTERT-RPE1 cells

Background Information

ARL13B, also named as ARL2L1, is a small ciliary G protein of the Ras superfamily. Localized in the cilia, it is required for cilium biogenesis and sonic hedgehog signaling. Defects in ARL13B are the cause of Joubert syndrome (JS) which is an autosomal recessive disorder characterized by a distinctive cerebellar malformation (PMID: 19906870). ARL13B can be used to mark the cilia (PMID:22072986). The second antibody is used against guinea pigs.

Storage

Storage:
Store at -20℃. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage
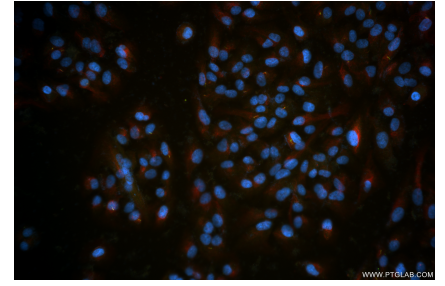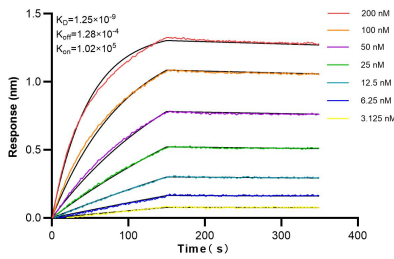
Selected Validation Data
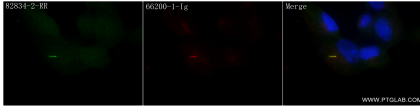
Immunofluorescent analysis of (4% PFA) fixed Starvation treated hTERT-RPE1 cells using ARL13B antibody (82834-2-RR, Clone: 3H5) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2), Acetyl-Tubulin (Lys40) antibody (66200-1-Ig, Clone: 7E5H8, red).
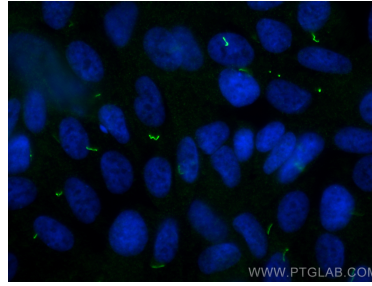
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$K_D = 1.25 \times 10^{-9}$
$K_{off} = 1.28 \times 10^{-4}$
$K_{on} = 1.02 \times 10^{5}$

200 nM
100 nM
50 nM
25 nM
12.5 nM
6.25 nM
3.125 nM

Biolayer interferometry (BLI) kinetic assays of 82834-2-RR against Human ARL13B were performed. The affinity constant is 1.25 nM.