

For Research Use Only

ALKBH3 Recombinant antibody

Catalog Number: 84314-3-RR



Basic Information

Catalog Number:

84314-3-RR

Size:

1000 ug/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG2982

GenBank Accession Number:

BC015155

GeneID (NCBI):

221120

UNIPROT ID:

Q96Q83

Full Name:

alkB, alkylation repair homolog 3 (E. coli)

Calculated MW:

286 aa, 33 kDa

Observed MW:

19-25 kDa

Purification Method:

Protein A purification

CloneNo.:

241650C3

Recommended Dilutions:

WB 1:5000-1:50000

IF/ICC 1:200-1:800

Applications

Tested Applications:

WB, IF/ICC, FC (Intra), ELISA

Species Specificity:

human, mouse, rat

Positive Controls:

WB : Jurkat cells, mouse kidney tissue, mouse heart tissue, rat heart tissue

IF/ICC : A431 cells,

Background Information

ALKBH3, also named as ABH3 and DEPC-1, is a dioxygenase that mediates demethylation of DNA and RNA containing 1-methyladenosine (m1A). It has a strong preference for single-stranded. ALKBH3 requires molecular oxygen, alpha-ketoglutarate and iron. This gene has some isoforms with MW 19-25 kDa and 33 kDa.

Storage

Storage:

Store at -20°C. 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

For technical support and original validation data for this product please contact:

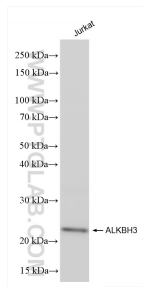
T: 4006900926

E: Proteintech-CN@ptglab.com

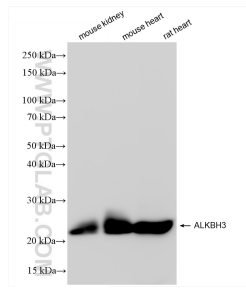
W: ptgcn.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data



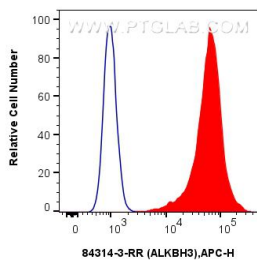
Various lysates were subjected to SDS PAGE followed by western blot with 84314-3-RR (ALKBH3 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



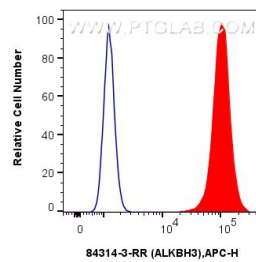
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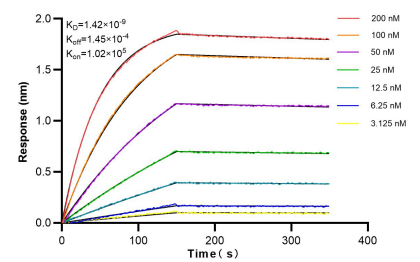
Immunofluorescent analysis of (4% PFA) fixed A431 cells using ALKBH3 antibody (84314-3-RR, Clone: 241650C3) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red).



1×10^6 HeLa cells were intracellularly stained with 0.25 ug ALKBH3 Recombinant antibody (84314-3-RR, Clone:241650C3) and APC-Conjugated Goat Anti-Rabbit IgG(H+L)(red), or 0.25 ug Isotype Control (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



1×10^6 PC-3 cells were intracellularly stained with 0.25 ug ALKBH3 Recombinant antibody (84314-3-RR, Clone:241650C3) and APC-Conjugated Goat Anti-Rabbit IgG(H+L)(red), or 0.25 ug Isotype Control (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



Biolayer interferometry (BLI) kinetic assays of 84314-3-RR against Human ALKBH3 were performed. The affinity constant is 1.42 nM.