

For Research Use Only

# ALKBH3 Recombinant antibody, PBS Only

Catalog Number: 84314-3-PBS



## Basic Information

Catalog Number:

84314-3-PBS

Size:

100ug, Concentration: 1 mg/ml by Nanodrop;

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

## Applications

Tested Applications:

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

Species Specificity:

human, mouse, rat

## 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 -80°C.

Storage Buffer:

PBS Only

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

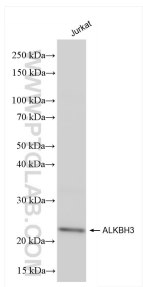
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)

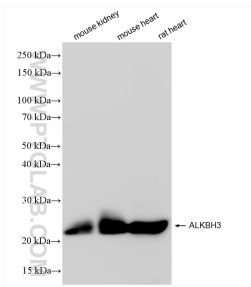
W: [ptglab.com](http://ptglab.com)

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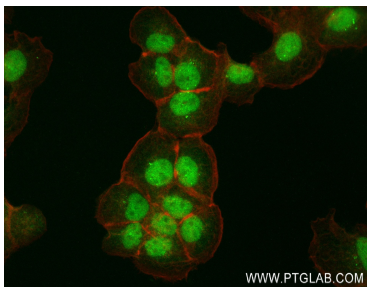
Selected Validation Data



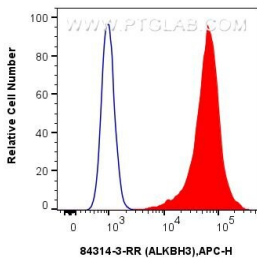
Various lysates were subjected to SDS PAGE followed by western blot with 84314-3-RR (ALKBH3 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 84314-3-PBS in a different storage buffer formulation.



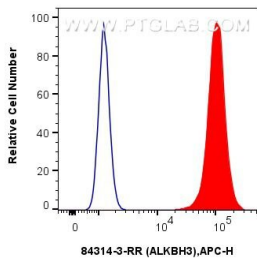
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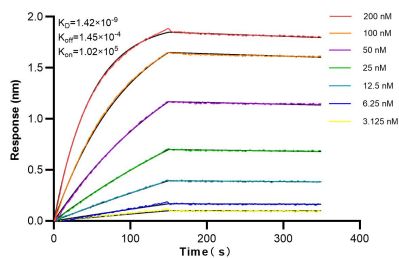
Immunofluorescent analysis of (4% PFA) fixed A431 cells using ALKBH3 antibody (84314-3-RR, Clone: 241650C3 ) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red). This data was developed using the same antibody clone with 84314-3-PBS in a different storage buffer formulation.



1x10<sup>6</sup> 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). This data was developed using the same antibody clone with 84314-3-PBS in a different storage buffer formulation.



1x10<sup>6</sup> 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). This data was developed using the same antibody clone with 84314-3-PBS in a different storage buffer formulation.



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