

For Research Use Only

ALKBH3 Recombinant antibody

Catalog Number: 84314-2-RR



Basic Information

Catalog Number:

84314-2-RR

Size:

100ul , Concentration: 1000 ug/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:

30-33 kDa

Purification Method:

Protein A purification

CloneNo.:

241650F10

Recommended Dilutions:

WB 1:5000-1:50000

Applications

Tested Applications:

WB, FC (Intra), ELISA

Species Specificity:

human, mouse, rat

Positive Controls:

WB : A375 cells, mouse kidney tissue, SGC-7901 cells,
mouse heart tissue, rat heart tissue

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 is 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

*** 20ul sizes contain 0.1% BSA

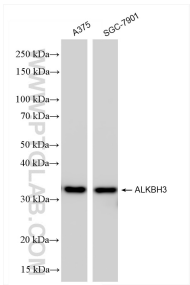
For technical support and original validation data for this product please contact:

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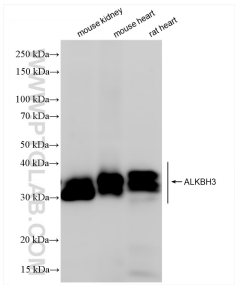
E: proteintech@ptglab.com
W: ptglab.com

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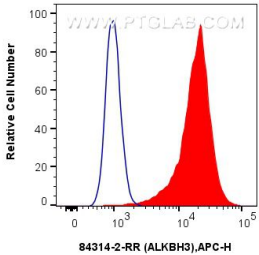
Selected Validation Data



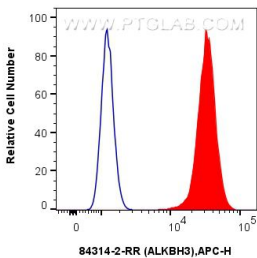
Various lysates were subjected to SDS PAGE followed by western blot with 84314-2-RR (ALKBH3 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



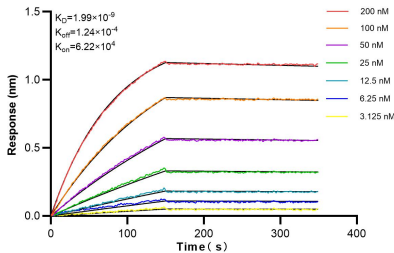
Various lysates were subjected to SDS PAGE followed by western blot with 84314-2-RR (ALKBH3 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



1x10⁶ HeLa cells were intracellularly stained with 0.25 ug ALKBH3 Recombinant antibody (84314-2-RR, Clone:241650F10) 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).



1x10⁶ PC-3 cells were intracellularly stained with 0.25 ug ALKBH3 Recombinant antibody (84314-2-RR, Clone:241650F10) 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 84314-2-RR against Human ALKBH3 were performed. The affinity constant is 1.99 nM.