

For Research Use Only

ALKBH3 Recombinant monoclonal antibody

Catalog Number: 84314-3-RR



Basic Information

Catalog Number: 84314-3-RR	GenBank Accession Number: BC015155	Purification Method: Protein A purification
Source: Rabbit	GeneID (NCBI): 221120	CloneNo.: 241650C3
Isotype: IgG	UNIPROT ID: Q96Q83	Recommended Dilutions: WB: 1:5000-1:50000 IF/ICC: 1:200-1:800 FC (Intra): 0.25 ug per 10 ⁶ cells in a 100 µl suspension
Immunogen Catalog Number: AG2982	Full Name: alkB, alkylation repair homolog 3 (E. coli)	
	Calculated MW: 286 aa, 33 kDa	
	Observed MW: 19-25 kDa	

Applications

Tested Applications: WB, IF/ICC, FC (Intra), ELISA	Positive Controls:
Species Specificity: human, mouse, rat	WB : Jurkat cells, mouse kidney tissue, mouse heart tissue, rat heart tissue
	IF/ICC : A431 cells,
	FC (Intra) : PC-3 cells, HeLa 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, pH7.3
Aliquoting is unnecessary for -20°C storage

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

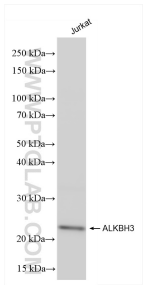
T: 4006900926

E: Proteintech-CN@ptglab.com

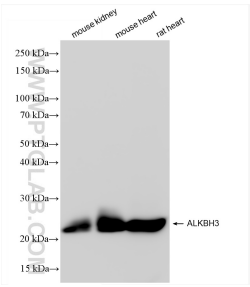
W: ptgcn.com

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

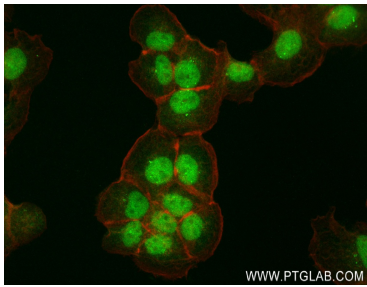
Selected Validation Data



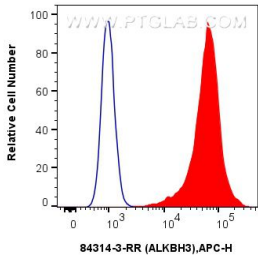
Various lysates were subjected to SDS PAGE followed by western blot with 84314-3-RR (ALKBH3 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



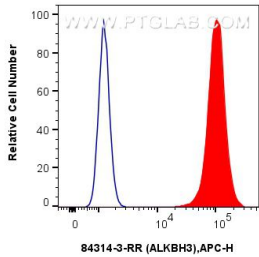
Various lysates were subjected to SDS PAGE followed by western blot with 84314-3-RR (ALKBH3 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



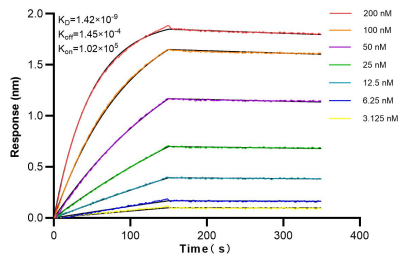
Immunofluorescent analysis of (4% PFA) fixed A431 cells using ALKBH3 antibody (84314-3-RR, Clone: 241650C3) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red).



1x10⁶ 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.



1x10⁶ 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.



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