For Research Use Only

KAT2A/GCN5 Recombinant monoclonal antibody

Catalog Number:84669-2-RR 1 Publications

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Basic Information

Catalog Number:
84669-2-RR

Size:
100ul , Concentration: 1000 ug/ml by Nanodrop;

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG29005

GenBank Accession Number:
BC032743

GeneID (NCBI):
2648

UNIPROT ID:
Q92830

Full Name:
K(lysine) acetyltransferase 2A

Calculated MW:
94 kDa

Observed MW:
94 kDa

Purification Method:
Protein A purification

CloneNo.:
242113C7

Recommended Dilutions:
WB: 1:500-1:3000
IHC: 1:50-1:500
IF/ICC: 1:200-1:800
FC (Intra): 0.25 ug per 10^6 cells in a 100 ul suspension

Applications

Tested Applications:
WB, IHC, IF/ICC, FC (Intra), ELISA

Cited Applications:
WB, IF

Species Specificity:
human, mouse, rat

Cited Species:
human

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : HEK-293 cells, A431 cells, HeLa cells, MCF-7 cells, LNCaP cells, HSC-T6 cells

IHC : human colon cancer tissue, mouse brain tissue, human stomach cancer tissue

IF/ICC : MCF-7 cells,

FC (Intra) : HEK-293 cells,

Background Information

GCN5, encoded by KAT2A, is a member of nuclear A-type histone acetyltransferase (HAT) which has direct impact on gene transcription. Additionally, GCN5 has roles in cell cycle regulation, DNA replication, and DNA repair, highlighting it as key player in the maintenance of genome stability. GCN5 is a coactivator of c-MYC oncogene protein and has oncogenic roles in various cancers.

Notable Publications

Author	Pubmed ID	Journal	Application
Antao Dong	42415249	Clin Transl Med	IF,WB

Storage

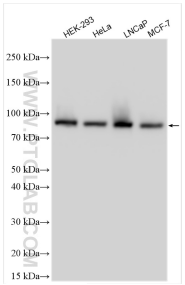
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

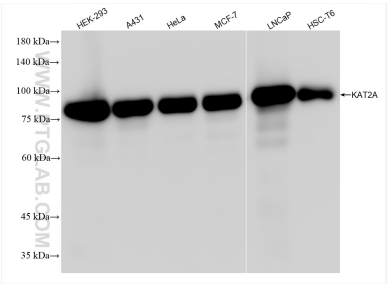
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

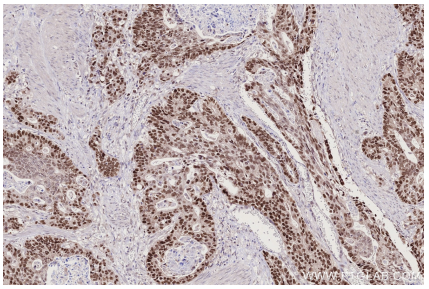
Selected Validation Data



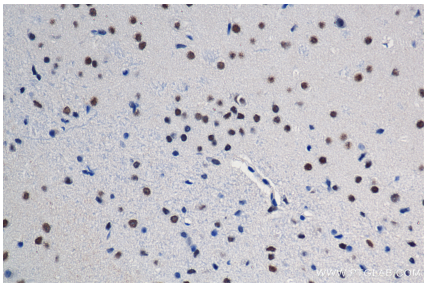
Various lysates were subjected to SDS PAGE followed by western blot with 84669-2-RR (KAT2A/GCN5 antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.



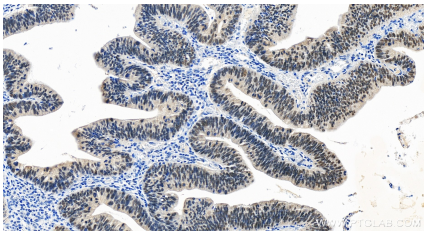
Various lysates were subjected to SDS PAGE followed by western blot with 84669-2-RR (KAT2A/GCN5 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



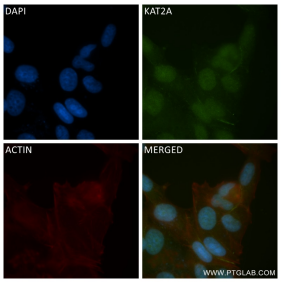
Immunohistochemical analysis of paraffin-embedded human stomach cancer tissue slide using 84669-2-RR (KAT2A/GCN5 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



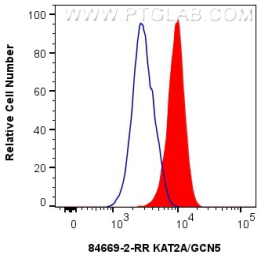
Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 84669-2-RR (KAT2A/GCN5 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



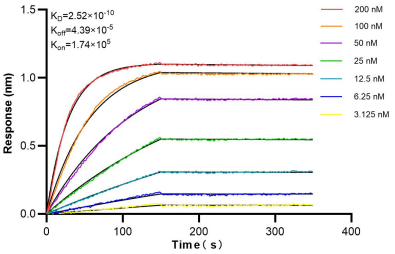
Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 84669-2-RR (KAT2A/GCN5 antibody) at dilution of 1:200 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed MCF-7 cells using KAT2A/GCN5 antibody (84669-2-RR, Clone: 242113C7) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red).



1x10^6 HEK-293 cells were intracellularly stained with 0.25 ug KAT2A/GCN5 Recombinant antibody (84669-2-RR, Clone:242113C7) and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2) (red), or 0.25 ug Rabbit IgG Isotype Control RecAb (98136-1-RR, Clone: 240953C9) (blue). Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011).



Biolayer interferometry (BLI) kinetic assays of 84669-2-RR against Human KAT2A/GCN5 were performed. The affinity constant is 0.252 nM.