

For Research Use Only

ALKBH3 Polyclonal antibody

Catalog Number: 12292-1-AP

Featured Product

1 Publications



Basic Information

| | | |
|---|--|---|
| Catalog Number: 12292-1-AP | GenBank Accession Number: BC015155 | Purification Method: Antigen affinity purification |
| Size: 150ul, Concentration: 550 µg/ml by Nanodrop and 293 µg/ml by Bradford method using BSA as the standard; | GeneID (NCBI): 221120 | Recommended Dilutions: WB 1:500-1:1000 IHC 1:50-1:2000 |
| Source: Rabbit | Full Name: alkB, alkylation repair homolog 3 (E. coli) | |
| Isotype: IgG | Calculated MW: 286 aa, 33 kDa | |
| Immunogen Catalog Number: AG2982 | Observed MW: 22-25 kDa, 33kDa | |

Applications

Tested Applications:

IHC, WB, ELISA

Cited Applications:

IHC, WB

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

IHC: human lung cancer tissue, human testis tissue, human prostate cancer tissue, human pancreas cancer tissue, rat stomach tissue, mouse stomach 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 requires molecular oxygen, alpha-ketoglutarate and iron. This gene has some isoforms with MW 19-25 kDa and 33 kDa.

Notable Publications

| Author | Pubmed ID | Journal | Application |
|-----------|-----------|-------------------------|-------------|
| Qian Wang | 29415318 | J Gastroenterol Hepatol | WB,IHC |

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

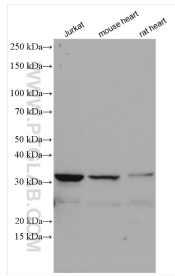
For technical support and original validation data for this product please contact:

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

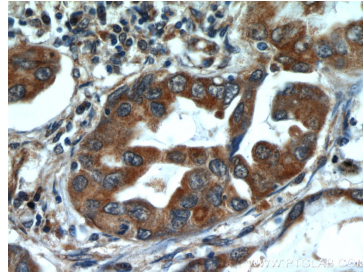
E: proteintech@ptglab.com
W: ptglab.com

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

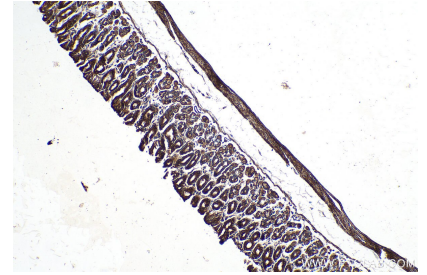
Selected Validation Data



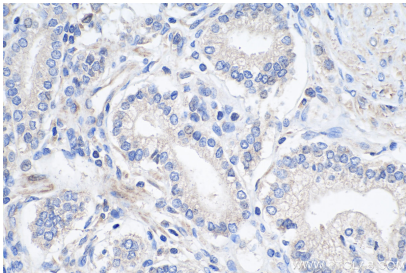
Various lysates were subjected to SDS PAGE followed by western blot with 12292-1-AP (ALKBH3 antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours.



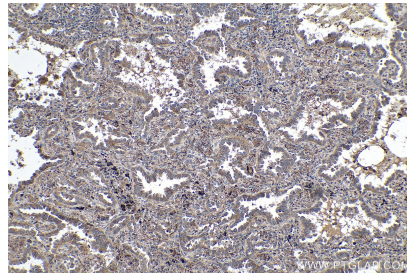
Immunohistochemical analysis of paraffin-embedded human lung cancer using 12292-1-AP (ALKBH3 antibody) at dilution of 1:50 (under 40x lens).



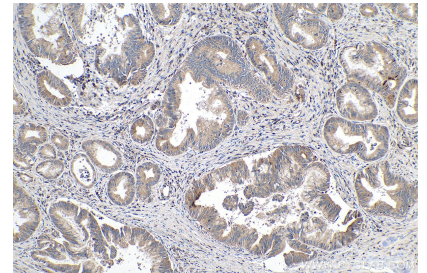
Immunohistochemical analysis of paraffin-embedded mouse stomach tissue slide using 12292-1-AP (ALKBH3 antibody) at dilution of 1:500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



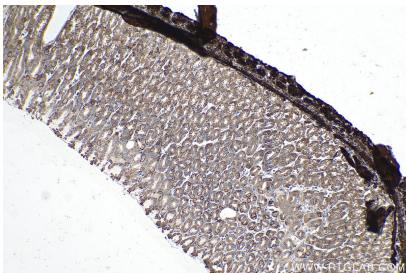
Immunohistochemical analysis of paraffin-embedded human prostate cancer tissue slide using 12292-1-AP (ALKBH3 antibody) at dilution of 1:2000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 12292-1-AP (ALKBH3 antibody) at dilution of 1:500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human pancreas cancer tissue slide using 12292-1-AP (ALKBH3 antibody) at dilution of 1:500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded rat stomach tissue slide using 12292-1-AP (ALKBH3 antibody) at dilution of 1:500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).