

For Research Use Only

# ALKBH8 Polyclonal antibody

Catalog Number: 25566-1-AP



## Basic Information

<b>Catalog Number:</b> 25566-1-AP	<b>GenBank Accession Number:</b> BC015183	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul , Concentration: 790 ug/ml by Nanodrop;	<b>GeneID (NCBI):</b> 91801	<b>Recommended Dilutions:</b> IHC: 1:50-1:500 IF/ICC: 1:200-1:800
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q96BT7	
<b>Isotype:</b> IgG	<b>Full Name:</b> alkB, alkylation repair homolog 8 (E. coli)	
<b>Immunogen Catalog Number:</b> AG22239	<b>Calculated MW:</b> 664 aa, 75 kDa	

## Applications

<b>Tested Applications:</b> IHC, IF/ICC, ELISA	<b>Positive Controls:</b> IHC : rat kidney tissue, IF/ICC : U2OS cells, HEK-293 cells
<b>Species Specificity:</b> human, rat	

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

## Background Information

ALKBH8 (Alpha-ketoglutarate-dependent dioxygenase) is unique among the ALKBH family, since it harbors a 2-oxoglutarate and Fe(II)-dependent oxygenase domain as well as an RNA recognition motif and methyl transferase domain (PMID: 27329810). ALKBH8 is a "writer" enzyme that modifies the wobble uridine of tRNA and regulates protein translation, including that of selenoproteins (PMID: 38550277). ALKBH8 is highly expressed in high-grade, superficially and deeply invasive bladder cancer. ALKBH8 knockdown induces apoptosis in bladder cancer cells (PMID: 38550277).

## 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

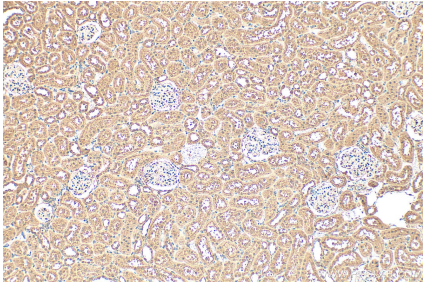
For technical support and original validation data for this product please contact:

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

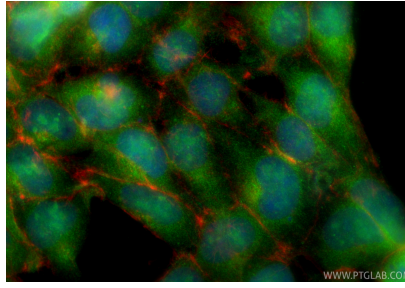
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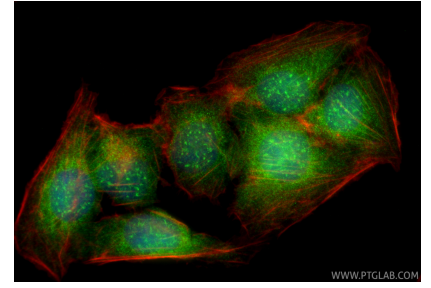
## Selected Validation Data



Immunohistochemical analysis of paraffin-embedded rat kidney tissue slide using 25566-1-AP (ALKBH8 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed HEK-293 cells using ALKBH8 antibody (25566-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red).



Immunofluorescent analysis of (4% PFA) fixed U2OS cells using ALKBH8 antibody (25566-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red).