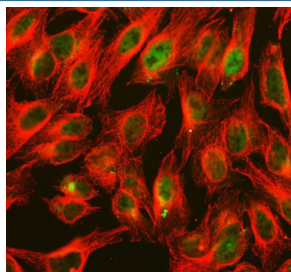


## ALKBH1 Antibody / Nucleic acid dioxygenase ALKBH1 (RQ5956)

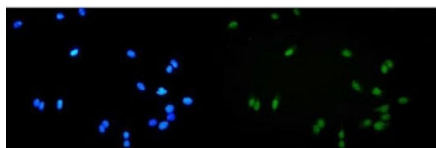
Catalog No.	Formulation	Size
RQ5956	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

**Bulk quote request**

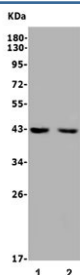
<b>Availability</b>	1-3 business days
<b>Species Reactivity</b>	Human
<b>Format</b>	Antigen affinity purified
<b>Clonality</b>	Polyclonal (rabbit origin)
<b>Isotype</b>	Rabbit IgG
<b>Purity</b>	Affinity purified
<b>Buffer</b>	Lyophilized from 1X PBS with 2% Trehalose
<b>UniProt</b>	Q13686
<b>Localization</b>	Nuclear, cytoplasmic
<b>Applications</b>	Western Blot : 0.5-1ug/ml Immunofluorescence : 5ug/ml
<b>Limitations</b>	This ALKBH1 antibody is available for research use only.



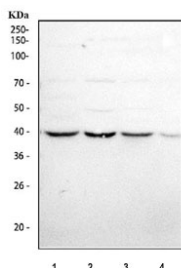
Immunofluorescent staining of FFPE human U-2 OS cells with ALKBH1 antibody (green) and Alpha Tubulin mAb (red). HIER: steam section in pH6 citrate buffer for 20 min.



Immunofluorescent staining of FFPE human U-2 OS cells with ALKBH1 antibody (green) and DAPI nuclear stain (blue). HIER: steam section in pH6 citrate buffer for 20 min.



Western blot testing of human 1) Jurkat and 2) K562 lysate with ALKBH1 antibody. Predicted molecular weight ~44 kDa.



Western blot testing of human 1) A549, 2) PC-3, 3) Jurkat and 4) K562 cell lysate with ALKBH1 antibody. Predicted molecular weight ~44 kDa.

## Description

Nucleic acid dioxygenase ALKBH1 is an enzyme that in humans is encoded by the ALKBH1 gene. It is mapped to 14q24.3. This gene encodes a homolog to the *E. coli* alkB gene product. The *E. coli* alkB protein is part of the adaptive response mechanism of DNA alkylation damage repair. It is involved in damage reversal by oxidative demethylation of 1-methyladenine and 3-methylcytosine.

## Application Notes

Optimal dilution of the ALKBH1 antibody should be determined by the researcher.

## Immunogen

Amino acids YLKTRVNMTVRQVLATDQNFPLEPIEDEKRD from the human protein were used as the immunogen for the ALKBH1 antibody.

## Storage

After reconstitution, the ALKBH1 antibody can be stored for up to one month at 4°C. For long-term, aliquot and store at -20°C. Avoid repeated freezing and thawing.