

ARG43509 anti-ALKBH5 antibody

Package: 50 µg
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes ALKBH5
Tested Reactivity	Hu
Tested Application	FACS, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	ALKBH5
Species	Human
Immunogen	Recombinant protein containing to human ALKBH5.
Conjugation	Un-conjugated
Alternate Names	OFOX1; Alpha-ketoglutarate-dependent dioxygenase alkB homolog 5; Alkylated DNA repair protein alkB homolog 5; ABH5; OFOX1; EC 1.14.11.-; RNA demethylase ALKBH5

Application Instructions

Application table	Application	Dilution
	FACS	5 µg/ml
	WB	0.1-0.25 µg/ml
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Positive Control	HeLa	
Observed Size	52 kDa	

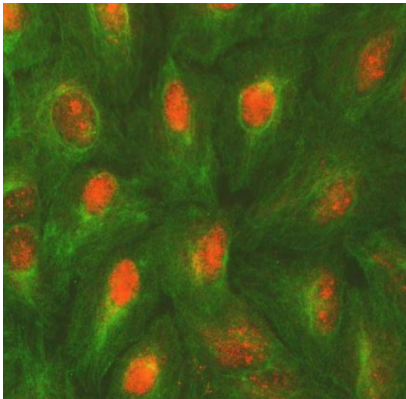
Properties

Form	Liquid
Purification	Affinity purified
Buffer	0.2% Na2HPO4, 0.9% NaCl and 4% Trehalose.
Stabilizer	4% Trehalose
Concentration	0.5 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Bioinformation

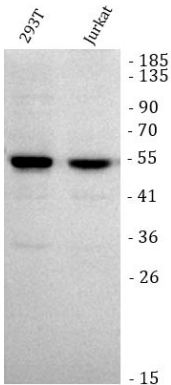
Gene Symbol	ALKBH5
Gene Full Name	AlkB family member 5, RNA demethylase
Background	Enables mRNA N6-methyladenosine dioxygenase activity and molecular condensate scaffold activity. Involved in non-membrane-bounded organelle assembly; post-transcriptional regulation of gene expression; and response to hypoxia. Acts upstream of or within regulation of mRNA export from nucleus and regulation of mRNA processing. Located in Golgi apparatus; cytosol; and nuclear speck. Is active in paraspeckles. [provided by Alliance of Genome Resources, Nov 2024]
Function	Dioxygenase that demethylates RNA by oxidative demethylation: specifically demethylates N(6)-methyladenosine (m6A) RNA, the most prevalent internal modification of messenger RNA (mRNA) in higher eukaryotes. Can also demethylate N(6)-methyladenosine in single-stranded DNA (in vitro). Requires molecular oxygen, alpha-ketoglutarate and iron. Demethylation of m6A mRNA affects mRNA processing and export. Required for spermatogenesis (By similarity). [UniProt]
Calculated Mw	44 kDa
PTM	Acetylation; Disulfide bond; Isopeptide bond; Methylation; Phosphoprotein; Ubl conjugation. [UniProt]
Cellular Localization	Nucleus speckle. [UniProt]

Images



ARG43509 anti-ALKBH5 antibody ICC/IF image

Immunofluorescence: A549 stained with ARG43509 anti-ALKBH5 antibody at 5 µg/ml dilution.



ARG43509 anti-ALKBH5 antibody WB image

Western blot: 293T and urkat stained with ARG43509 anti-ALKBH5 antibody at 0.25 µg/ml dilution.