

## ARG40178 anti-ALKBH5 antibody

Package: 100 µl  
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	KLH-conjugated synthetic peptide corresponding to aa. 302-330 of 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	1:25
	WB	1:500
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Positive Control	HeLa	

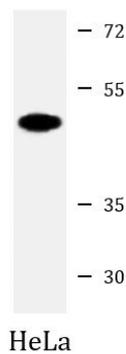
### Properties

Form	Liquid
Purification	Purification with Protein A and immunogen peptide.
Buffer	PBS and 0.09% (W/V) Sodium azide.
Preservative	0.09% (W/V) Sodium azide
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.
Note	For laboratory research only, not for drug, diagnostic or other use.

## Bioinformation

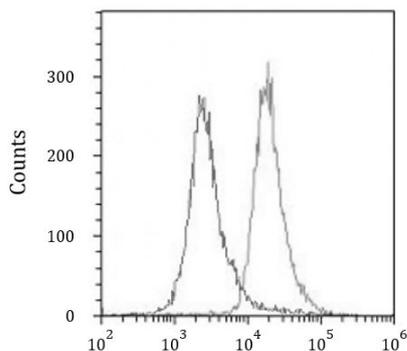
Gene Symbol	ALKBH5
Gene Full Name	AlkB family member 5, RNA demethylase
Function	Dioxygenase that demethylates RNA by oxidative demethylation: specifically demethylates N(6)-methyladenosine (m6A) RNA, the most prevalent internal modification of messenger RNA (mRNA) in higher eukaryotes. Can also demethylate 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
Cellular Localization	Nucleus speckle. [UniProt]

## Images



ARG40178 anti-ALKBH5 antibody WB image

Western blot: 20  $\mu$ g of HeLa cell lysate stained with ARG40178 anti-ALKBH5 antibody.



ARG40178 anti-ALKBH5 antibody FACS image

Flow Cytometry: U-2 OS cells were fixed with 2% paraformaldehyde (10 min) and then permeabilized with 90% methanol for 10 min. The cells were then incubated in 2% BSA to block non-specific protein-protein interactions followed by ARG40178 anti-ALKBH5 antibody (right histogram) at 1:25 dilution for 60 min at 37°C, followed by incubation with DyLight® 488 labelled secondary antibody. Isotype control antibody (left histogram) was Rabbit IgG1 at 1  $\mu$ g/ $10^6$  cells used under the same conditions. Acquisition of > 10000 events was performed.