ALKBH8 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	ALKBH8, Polyclonal Antibody
Full Product Name	ALKBH8 Rabbit pAb
Product Gene Name	anti-ALKBH8 antibody
Product Synonym Names	ABH8; TRM9; TRMT9; TRMT9A
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	PBS with 0.02% Sodium Azide, 50% Glycerol, pH 7.3.
Purity/Purification	Affinity Purified
Preparation and Storage	Store at -20 degree C. Avoid freeze/thaw cycles.
Molecular Weight	75kDa
OMIM	613306
3D Structure	ModBase 3D Structure for Q96BT7
Immunogen	Recombinant fusion protein containing a sequence corresponding to amino acids 1-230 of human ALKBH8 (NP_620130.2).
Cellular Localization	Cytoplasm, Nucleus
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-ALKBH8 antibody	Western Blot (WB), Immunohistochemistry (IHC), Immunofluorescence (IF)
Application Notes for anti-ALKBH8 antibody	WB: 1:500-1:2000 IHC: 1:100-1:200 IF: 1:50-1:100
Related Product Information for anti-ALKBH8 antibody	Catalyzes the methylation of 5-carboxymethyl uridine to 5-methylcarboxymethyl uridine at the wobble position of the anticodon loop in tRNA via its methyltransferase domain (PubMed:20123966, PubMed:20308323). Catalyzes the last step in the formation of 5-methylcarboxymethyl uridine at the wobble position of the anticodon loop in target tRNA (PubMed:20123966, PubMed:20308323). Has a preference for tRNA(Arg) and tRNA(Glu), and does not bind tRNA(Lys)(PubMed:20308323). Binds tRNA and catalyzes the iron and alpha-ketoglutarate dependent hydroxylation of 5-methylcarboxymethyl uridine at the wobble position of the anticodon loop in tRNA via its dioxygenase domain, giving rise to 5-(S)-methoxycarbonylhydroxymethyluridine; has a preference for tRNA(Gly) (PubMed:21285950). Required for normal survival after DNA damage (PubMed:20308323). May inhibit apoptosis and promote cell survival and angiogenesis (PubMed:19293182).
Other Notes	Small volumes of anti-ALKBH8 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for ALKBH8 purchase	MBS8546616 is an antibody targeting ALKBH8. Also known as ALKBH8 Rabbit pAb. Reactive in Human, Mouse. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ALKBH8. It may not necessarily be applicable to this product.

NCBI GI #	195927056
NCBI GeneID	91801
NCBI Accession #	NP_620130.2
UniProt Primary Accession #	Q96BT7
UniProt Related Accession #	Q96BT7
GenBank Nucleotide #	NP_620130.2
NCBI Official Full Name	alkylated DNA repair protein alkB homolog 8 isoform 2
NCBI Official Synonym Full Names	alkB homolog 8, tRNA methyltransferase
NCBI Official Symbol	ALKBH8
NCBI Official Synonym Symbols	ABH8; TRM9; MRT71; TRMT9; TRMT9A
UniProt Protein Name	Alkylated DNA repair protein alkB homolog 8
UniProt Synonym Protein Names	Probable alpha-ketoglutarate-dependent dioxygenase ABH8; S-adenosyl-L-methionine-dependent tRNA methyltransferase ABH8
Protein Family	Alkylated DNA repair protein
UniProt Gene Name	ALKBH8
UniProt Synonym Gene Names	ABH8
UniProt Entry Name	ALKB8_HUMAN
NCBI Protein Information	alkylated DNA repair protein alkB homolog 8
UniProt Comments for ALKBH8	ALKBH8: Catalyzes the methylation of 5-carboxymethyl uridine to 5-methylcarboxymethyl uridine at the wobble position of the anticodon loop in tRNA. Catalyzes the last step in the formation of 5-methylcarboxymethyl uridine at the wobble position of the anticodon loop in target tRNA. Has a preference for tRNA(Arg) and tRNA(Glu), and does not bind tRNA(Lys). Required for normal survival after DNA damage. May inhibit apoptosis and promote cell survival and angiogenesis. Belongs to the alkB family. 4 isoforms of the human protein are produced by alternative splicing. Protein type: EC 2.1.1.229; Methyltransferase; RNA processing Chromosomal Location of Human Ortholog: 11q22.3 Cellular Component: microtubule cytoskeleton; nucleoplasm; nucleus; cytosol Molecular Function: protein binding; zinc ion binding; tRNA (uracil) methyltransferase activity; iron ion binding; oxidoreductase activity, acting on paired donors, with incorporation or reduction of molecular oxygen, 2-oxoglutarate as one donor, and incorporation of one atom each of oxygen into both donors; tRNA binding Biological Process: tRNA wobble uridine modification; response to DNA damage stimulus; tRNA methylation
Research Articles on ALKBH8	**1.** findings suggest that the high expression of ALKBH8 is critical for the growth and progression of bladder cancer
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