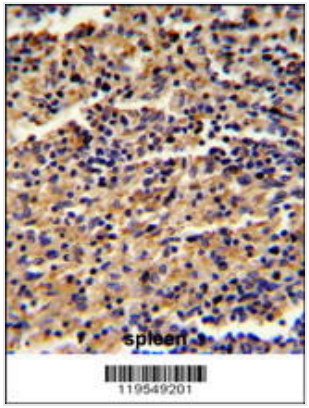
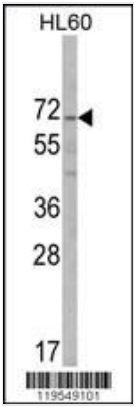
ALKBH8 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

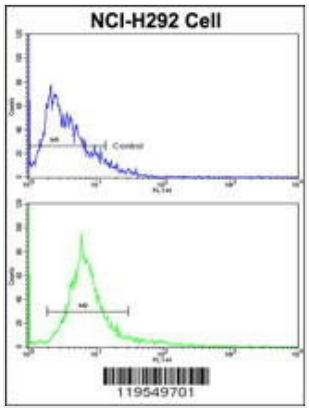
Product Name	ALKBH8, Polyclonal Antibody
Full Product Name	ALKBH8, CT (Alkylated DNA Repair Protein alkB Homolog 8, Probable alpha-ketoglutarate-dependent Dioxygenase ABH8, S-adenosyl-L-methionine-dependent tRNA Methyltransferase ABH8, ABH8) (MaxLight 550)
Product Gene Name	anti-ALKBH8 antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight550.
Purity/Purification	Purified by Ammonium Sulfate Precipitation.
Specificity	Recognizes human ALKBH8.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight550 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	26kDa
OMIM	613306
3D Structure	ModBase 3D Structure for Q96BT7
Immunogen	Synthetic peptide selected from the C-terminal region of human ALKBH8 (KLH).
Conjugate	MaxLight550
Note	Preservative Free
Product Categories/Family for anti-ALKBH8 antibody	Antibodies; DNA Replication; Repair
Applications Tested/Suitable for anti-ALKBH8 antibody	Western Blot (WB), FLISA
Application Notes for anti-ALKBH8 antibody	WB: 1:50-1:100 FLISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-ALKBH8 antibody	MBS6462508 is an antibody targeting ALKBH8. Also known as ALKBH8, CT (Alkylated DNA Repair Protein alkB Homolog 8, Probable alpha-ketoglutarate-dependent Dioxygenase ABH8, S-adenosyl-L-methionine-dependent tRNA Methyltransferase ABH8, ABH8) (MaxLight 550). Reactive in Human. Host: Rabbit.
Product References and Citations for anti-ALKBH8 antibody	1. Shimada, K., et.al., Cancer Res. 69(7), 3157-3164 (2009).
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.



Immunohistochemistry (IHC) of anti-ALKBH8 antibody
Formalin-fixed and paraffin-embedded human spleen reacted with ALKBH8 Antibody (C-term), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



Western Blot (WB) of anti-ALKBH8 antibody
Western blot analysis of ALKBH8 Antibody (C-term) in HL60 cell line lysates (35ug/lane). ALKBH8 (arrow) was detected using the purified Pab.



Flow Cytometry (FC/FACS) of anti-ALKBH8 antibody
Flow cytometric analysis of NCI-H292 cells using ALKBH8 Antibody (C-term)(bottom histogram) compared to a negative control cell (top histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

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
UniProt Primary Accession #	Q96BT7
UniProt Related Accession #	Q96BT7
GenBank Nucleotide #	NM_138775
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; 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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