

ALKBH7 Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP59069

Product Information

Application	IHC-P, IHC-F, IF, ICC, E
Primary Accession	Q9BT30
Reactivity	Rat, Pig, Dog, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	24516

Additional Information

Gene ID	84266
Other Names	Alpha-ketoglutarate-dependent dioxygenase alkB homolog 7, mitochondrial, 1.14.11.-, Alkylated DNA repair protein alkB homolog 7, Spermatogenesis cell proliferation-related protein, Spermatogenesis-associated protein 11, ALKBH7, ABH7, SPATA11
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,ICC=1:100-500,IF=1:100-500,ELISA=1:5000-10000
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	ALKBH7 (HGNC:21306)
Synonyms	ABH7, SPATA11
Function	RNA demethylase that demethylates N(2)-dimethylguanosine and N(1)-methyladenosine within mitochondrial pre-tRNA regions. This demethylation activity plays a crucial role in regulating the processing of nascent polycistronic mitochondrial RNA, thereby influencing mitochondrial gene expression and overall mitochondrial activity (PubMed: 34253897). In response to extensive DNA damage is required for programmed necrosis induced by alkylation and oxidation. Acts by triggering the collapse of mitochondrial membrane potential and loss of mitochondrial function that leads to energy depletion and cell death (PubMed: 23666923). Involved in fatty acid metabolism (By similarity).
Cellular Location	Mitochondrion matrix

Tissue Location	Widely expressed, with highest expression in pancreas, followed by spleen, prostate, ovary and placenta
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