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METTL9 Rabbit pAb

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Catalog # AP57278

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q9H1A3
Predicted	Rat, Pig, Dog, Human, Mouse, Rabbit
Host	Rabbit
Clonality	Polyclonal
Calculated MW	36536
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human METTL9
Epitope Specificity	211-310/318
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

Additional Information

Gene ID	51108
Other Names	Protein-L-histidine N-pros-methyltransferase, 2.1.1.-, DORA reverse strand protein, DREV, DREV1, Methyltransferase-like protein 9, hMETTL9, METTL9 {ECO:0000303|PubMed:33563959, ECO:0000312|HGNC:HGNC:24586}
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=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	METTL9 {ECO:0000303|PubMed:33563959, ECO:0000312|HGNC:HGNC:24586}
Function	Protein-histidine N-methyltransferase that specifically catalyzes 1-methylhistidine (pros-methylhistidine) methylation of target proteins (PubMed:33563959, PubMed:34562450, PubMed:37015930, PubMed:37398635). Specifically methylates the second His of proteins with a His-x-His (HxH) motif (where 'x' is preferably a small amino acid), while

	exploiting the first one as a recognition signature (PubMed:37398635). Catalyzes methylation of target proteins such as S100A9, NDUFB3, SLC39A5, SLC39A7, ARMC6 and DNAJB12; 1-methylhistidine modification may affect the binding of zinc and other metals to its target proteins (PubMed:33563959, PubMed:34562450, PubMed:37015930, PubMed:37398635). Constitutes the main methyltransferase for the 1- methylhistidine modification in cell (PubMed:33563959).
Cellular Location	Endoplasmic reticulum Mitochondrion. Note=Colocalizes with membranous compartments such as the endoplasmic reticulum and mitochondria.

Background

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Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.