

KIAA0859 Rabbit pAb

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Catalog # AP56495

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q8N6R0
Reactivity	Mouse
Predicted	Pig, Dog, Orangutan, Gorilla, Human, Rabbit, Horse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	78768
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human KIAA0859
Epitope Specificity	111-200/699
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.
Background Descriptions	METTL13 is a 699 amino acid protein that exists as five alternatively spliced isoforms that are encoded by a gene that maps to human chromosome 1. Chromosome 1 is the largest human chromosome spanning about 260 million base pairs and making up 8% of the human genome. There are about 3,000 genes on chromosome 1, and considering the great number of genes there are also a large number of diseases associated with chromosome 1. Notably, the rare aging disease Hutchinson-Gilford progeria is associated with the LMNA gene which encodes lamin A. When defective, the LMNA gene product can build up in the nucleus and cause characteristic nuclear blebs. The mechanism of rapidly enhanced aging is unclear and is a topic of continuing exploration. The MUTYH gene is located on chromosome 1 and is partially responsible for familial adenomatous polyposis. Stickler syndrome, Parkinsons, Gaucher disease and Usher syndrome are also associated with chromosome 1. A breakpoint has been identified in 1q which disrupts the DISC1 gene and is linked to schizophrenia. Aberrations in chromosome 1 are found in a variety of cancers including head and neck cancer, malignant melanoma and multiple myeloma.

Additional Information

Gene ID	51603
Other Names	eEF1A lysine and N-terminal methyltransferase {ECO:0000303 PubMed:30143613, ECO:0000305}, eEF1A-KNMT, Methyltransferase-like protein 13 {ECO:0000303 PubMed:26763933, ECO:0000312 HGNC:HGNC:24248}, eEF1A lysine methyltransferase, 2.1.1.-,

eEF1A N-terminal methyltransferase, 2.1.1.-, METTL13 ([HGNC:24248](#))

Dilution

IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500

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

METTL13 ([HGNC:24248](#))

Function

Dual methyltransferase that catalyzes methylation of elongation factor 1-alpha (EEF1A1 and EEF1A2) at two different positions, and is therefore involved in the regulation of mRNA translation (PubMed:[30143613](#), PubMed:[30612740](#)). Via its C-terminus, methylates EEF1A1 and EEF1A2 at the N-terminal residue 'Gly-2' (PubMed:[30143613](#)). Via its N-terminus dimethylates EEF1A1 and EEF1A2 at residue 'Lys-55' (PubMed:[30143613](#), PubMed:[30612740](#)). Has no activity towards core histones H2A, H2B, H3 and H4 (PubMed:[30612740](#)).

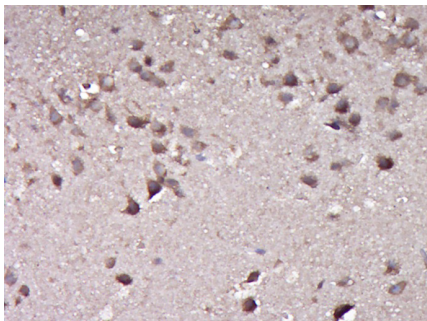
Cellular Location

Cytoplasm. Nucleus. Mitochondrion

Background

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Images



Paraformaldehyde-fixed, paraffin embedded (Mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (KIAA0859) Polyclonal Antibody, Unconjugated (AP56495) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.

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