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RNF157 Rabbit pAb

Catalog # AP99726

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q96PX1
Other Accession	Q96PX1
Reactivity	Rat
Predicted	Pig, Human, Mouse, Rabbit, Chicken, Dog, Horse, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	73579
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human RNF157
Epitope Specificity	61-160/679
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the EAF6 family.
SUBUNIT	Component of the NuA4 histone acetyltransferase complex which contains the catalytic subunit KAT5 and the subunits EP400, TRRAP, BRD8, EPC1, DMAP1, RUVBL1, RUVBL2, ING3, actin, ACTL6A, MORF4L1, MORF4L2, MRGBP, YEATS4, VPS72 and MEAF6. Component of the HBO1 complex composed at least of ING4 or ING5, KAT7/HBO1, MEAF6, and one of PHF15, PHF16 and PHF17. Component of the MOZ/MORF complex composed at least of ING5, KAT6A, KAT6B, MEAF6 and one of BRPF1, BRD1/BRPF2 and BRPF3.
Post-translational modifications	Phosphorylated upon DNA damage, probably by ATM or ATR.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	MEAF6, also known as Eaf6 or NY-SAR-91, is a 191 amino acid nuclear protein belonging to the EAF6 family. MEAF6 is a component of the NuA4 histone acetyltransferase complex, which is involved in transcriptional activation of select genes principally by acetylation of nucleosomal histone H4 and H2A. The gene encoding MEAF6 localizes to chromosome 1 and, due to alternative splicing events, MEAF6 exists in at least three isoforms. 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 such as Hutchinson-Gilford progeria, Stickler syndrome, Parkinsons, Gaucher disease and Usher syndrome.

Additional Information

Gene ID	114804

Other Names	RN157_HUMAN; RNF157; RING finger protein 157; RING-type E3 ubiquitin transferase RNF157; 2.3.2.27; KIAA1917
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	RNF157
Synonyms	KIAA1917
Function	E3 ubiquitin ligase that ubiquitinates APBB1 for its degradation by the proteasome and thus prevents apoptosis and promotes survival of neurons (PubMed:25342469). Has a dual role in neurons as it is also required for dendrite growth and maintenance for which its ligase activity is not critical (PubMed:25342469). May act as a scaffold molecule to regulate this process (PubMed:25342469). Acts as a downstream effector of the interconnected PI3K and MAPK signaling pathways and thus participates in the regulation of the cell cycle (PubMed:28655764).
Cellular Location	Cytoplasm {ECO:0000250|UniProtKB:M0R5D6}.

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