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ORC3 Rabbit pAb

Catalog # AP97436

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q9UBD5
Other Accession	Q9UBD5
Reactivity	Mouse
Predicted	Rat, Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	82254
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human ORC3
Epitope Specificity	461-560/711
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 ORC3 family.
Post-translational modifications	Phosphorylated upon DNA damage, probably by ATM or ATR. 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	The origin recognition complex (ORC) is a highly conserved six subunits protein complex essential for the initiation of the DNA replication in eukaryotic cells. Studies in yeast demonstrated that ORC binds specifically to origins of replication and serves as a platform for the assembly of additional initiation factors such as Cdc6 and Mcm proteins. The protein encoded by this gene is a subunit of the ORC complex. Studies of a similar gene in Drosophila suggested a possible role of this protein in neuronal proliferation and olfactory memory. Alternatively spliced transcript variants encoding distinct isoforms have been reported for this gene. [provided by RefSeq, Jul 2008]

Additional Information

Gene ID	23595
Other Names	ORC3L; LAT; LATHEO; ORC3_BOVIN; ORC3; ORC3_HUMAN; Origin recognition complex subunit Latheo; origin recognition complex subunit 3; origin recognition complex, subunit 3 (yeast homolog)-like; origin recognition complex, subunit 3-like (yeast); origin recognition complex, subunit 3 honolog (yeast); origin recognition complex, subunit 3
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	ORC3
Synonyms	LATHEO, ORC3L
Function	Component of the origin recognition complex (ORC) that binds origins of replication. DNA-binding is ATP-dependent. The specific DNA sequences that define origins of replication have not been identified yet. ORC is required to assemble the pre-replication complex necessary to initiate DNA replication. Binds histone H3 and H4 trimethylation marks H3K9me3, H3K27me3 and H4K20me3.
Cellular Location	Nucleus. Chromosome

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