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ORC1L/ORC1 Rabbit pAb

Catalog # AP99689

Product Information

Application	IHC-P, IHC-F, IF, E
Primary Accession	Q13415
Other Accession	Q13415
Predicted	Rat, Pig, Human, Mouse, Dog, Horse, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	97350
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human ORC1L/ORC1
Epitope Specificity	701-800/861
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 ORC1 family.Contains 1 BAH domain.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	The initiation of DNA replication is a multi-step process that depends on the formation of pre-replication complexes, which trigger initiation (1). Among the proteins required for establishing these complexes are the origin recognition complex (ORC) proteins (1). ORC proteins bind specifically to origins of replication where they serve as scaffold for the assembly of additional initiation factors (1). Human ORC subunits 1-6 are expressed in the nucleus of proliferating cells and tissues, such as the testis (2). ORC1 and ORC2 are both expressed at equivalent concentrations throughout the cell cycle; however, only ORC2 remains stably bound to chromatin (3,4). ORC4 and ORC6 are also expressed constantly throughout the cell cycle (5,6). ORC2, ORC3, ORC4 and ORC5 form a core complex upon which ORC6 and ORC1 assemble (7,8). The formation of this core complex suggests that ORC proteins play a crucial role in the G1-S transition in mammalian cells (8).

Additional Information

Gene ID	4998
Other Names	ORC1_HUMAN; ORC1; Replication control protein 1; ORC1L; PARC1; origin recognition complex subunit 1; origin recognition complex, subunit 1 (yeast homolog)-like; origin recognition complex, subunit 1-like (yeast); origin recognition complex, subunit 1 homolog (S. cerevisiae); origin recognition complex, subunit 1; origin recognition complex, subunit 1, S. cerevisiae, homolog-like; origin recognition complex 1
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	ORC1
Synonyms	ORC1L, PARC1
Function	Component of the origin recognition complex (ORC) that binds origins of replication. DNA-binding is ATP-dependent. The 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.
Cellular Location	Nucleus.

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