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anti-ORC1 antibody



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OVC	

Quantity:	100 μL	
Target:	ORC1 (ORC1L)	
Reactivity:	Human, Rat, Mouse	
Host:	Rabbit	
Clonality:	Polyclonal	
Conjugate:	This ORC1 antibody is un-conjugated	
Application:	Western Blotting (WB), Immunofluorescence (Paraffin-embedded Sections) (IF (p)), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))	

Product Details

Immunogen:	KLH conjugated synthetic peptide derived from human ORC1L/ORC1	
Isotype:	IgG	
Cross-Reactivity:	Human, Mouse, Rat	
Purification:	Purified by Protein A.	

Target Details

Target:	ORC1 (ORC1L)	
Alternative Name:	ORC1L (ORC1L Products)	
Background:	Synonyms: HSORC1, MmORC1, orc1, ORC1_HUMAN, ORC1L, Origin Recognition Complex 1,	
	Origin recognition complex subunit 1 yeast homolog like, Origin recognition complex subunit 1,	
	Origin recognition complex subunit 1 homolog, Origin recognition complex subunit 1 like S.	

cerevisia, Origin recognition complex subunit 1 like, Origin recognition complex subunit 1 S. cerevisiae homolog like, Origin recognition complex, subunit 1 like yeast, PARC1, Replication control protein 1.

Background: 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).

Gene ID: 4998

Mitotic G1-G1/S Phases, DNA Replication, Synthesis of DNA

Application Details

Pathways:

Application Notes: WB 1:300-5000

IHC-P 1:200-400

IF(IHC-P) 1:50-200

Restrictions: For Research Use only

Handling

Format:	Liquid	
Concentration:	1 μg/μL	
Buffer:	0.01M TBS(pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.	
Preservative:	ProClin	
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.	
Storage:	4 °C,-20 °C	
Storage Comment:	Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.	

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Expiry Date:

12 months