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Datasheet for ABIN1694924
anti-ORC1 antibody (Alexa Fluor 488)

Overview

Quantity:	100 µL
Target:	ORC1 (ORC1L)
Reactivity:	Human, Rat, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ORC1 antibody is conjugated to Alexa Fluor 488
Application:	Western Blotting (WB), Immunofluorescence (Paraffin-embedded Sections) (IF (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.

Target Details

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

Pathways: [Mitotic G1-G1/S Phases](#), [DNA Replication](#), [Synthesis of DNA](#)

Application Details

Application Notes: IF(IHC-P) 1:50-200

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 1 µg/µL

Buffer: Aqueous buffered solution containing 0.01M TBS (pH 7.4) with 1 % BSA, 0.03 % 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: -20 °C

Storage Comment: Store at -20°C. Aliquot into multiple vials to avoid repeated freeze-thaw cycles.

Expiry Date: 12 months