

Datasheet for ABIN7658229
anti-ORC1 antibody (CF®647)



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Overview

Quantity:	100 µL
Target:	ORC1 (ORC1L)
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This ORC1 antibody is conjugated to CF®647
Application:	Please inquire

Product Details

Purpose:	ORC1(7F6/1), CF647 conjugate
Immunogen:	Recombinant full-length human ORC1 protein
Clone:	7F6-1
Isotype:	IgG1, kappa

Characteristics: The initiation of DNA replication is a multi-step process that depends on the formation of pre-replication complexes, which trigger initiation. Among the proteins required for establishing these complexes are the origin recognition complex (ORC) proteins. ORC proteins bind specifically to origins of replication where they serve as scaffold for the assembly of additional initiation factors. Human ORC subunits 1-6 are expressed in the nucleus of proliferating cells and tissues, such as the testis. ORC1 and ORC2 are both expressed at equivalent concentrations throughout the cell cycle, however, only ORC2 remains stably bound to chromatin. ORC4 and ORC6 are also expressed constantly throughout the cell cycle. ORC2,

Product Details

ORC3, ORC4 and ORC5 form a core complex upon which ORC6 and ORC1 assemble. The formation of this core complex suggests that ORC proteins play a crucial role in the G1-S transition in mammalian cells. Primary antibodies are available purified, or with a selection of fluorescent CF® Dyes and other labels. CF® Dyes offer exceptional brightness and photostability. Note: Conjugates of blue fluorescent dyes like CF®405S and CF®405M are not recommended for detecting low abundance targets, because blue dyes have lower fluorescence and can give higher non-specific background than other dye colors.

Target Details

Target:	ORC1 (ORC1L)
Alternative Name:	ORC1
Background:	Synonyms: HSORC1, MmORC1, Origin Recognition Complex 1 (ORC1), Origin recognition complex subunit 1 (yeast homolog) like (ORC1L), Origin recognition complex subunit 1 like (S. cerevisia, Origin recognition complex subunit 1 like, PARC1, Replication control protein 1 Gene Symbol: ORC1L
Molecular Weight:	120 kDa
Gene ID:	4998
UniProt:	Q13415
Pathways:	Mitotic G1-G1/S Phases , DNA Replication , Synthesis of DNA

Application Details

Application Notes:	For coating for ELISA, order Ab without BSA. Higher concentration may be required for direct detection using primary antibody conjugates than for indirect detection with secondary antibody. Optimal dilution and staining procedure for a specific application should be determined by user. Recommended starting concentrations for titration are 1-2 µg/mL for most applications, or 1 µg/million cells/100 µL for flow cytometry
Comment:	Positive Control: HeLa cells.
Restrictions:	For Research Use only

Handling

Format:	Liquid
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Handling

Concentration:	0.1 mg/mL
Buffer:	PBS, 0.1 % BSA, 0.05 % azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Protect from light
Storage:	4 °C
Storage Comment:	Stable at room temperature or 37°C for 7 days. Protect from light Store at 2 to 8°C. Protect fluorescent conjugates from light
Expiry Date:	24 months