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# anti-ORC1 antibody

2 Images



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### Overview

Quantity:	200 μL
Target:	ORC1 (ORC1L)
Reactivity:	Human, Rat, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ORC1 antibody is un-conjugated
Application:	ELISA, Immunohistochemistry (IHC)

# **Product Details**

Immunogen:	Fusion protein of human ORC1
Isotype:	IgG
Characteristics:	Polyclonal Antibody
Purification:	Antigen affinity purification

# Target Details

Target:	ORC1 (ORC1L)
Alternative Name:	ORC1 (ORC1L Products)
Background:	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 the largest subunit of the ORC complex. While other ORC subunits are stable throughout the cell cycle, the levels of this protein vary during the cell cycle, which has been shown to be controlled by ubiquitin-mediated proteolysis after initiation of DNA replication. This protein is found to be selectively phosphorylated during mitosis. It is also reported to interact with MYST histone acetyltransferase 2 (MyST2/HBO1), a protein involved in control of transcription silencing. Alternatively spliced transcript variants encoding different isoforms have been found for this gene.ORC1 (Origin Recognition Complex Subunit 1) is a Protein Coding gene. Diseases associated with ORC1 include Meier-Gorlin Syndrome 1 and Microtia. Among its related pathways are E2F mediated regulation of DNA replication and CDK-mediated phosphorylation and removal of Cdc6. GO annotations related to this gene include chromatin binding. An important paralog of this gene is CDC6.

UniProt:

013415

Pathways:

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

# **Application Details**

Application Notes:

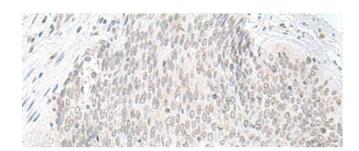
IHC 1:50-1:300, ELISA 1:5000-1:10000

Restrictions:

For Research Use only

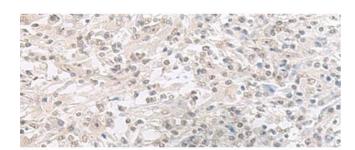
# Handling

Format:	Liquid
Concentration:	1.14 mg/mL
Buffer:	PBS with 0.05 % Sodium azide and 40 % Glycerol, pH 7.4
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store at -20°C. Avoid freeze / thaw cycles.



# **Immunohistochemistry (Paraffin-embedded Sections)**

**Image 1.** Immunohistochemistry of paraffin-embedded Human esophagus cancer tissue using ORC1 Polyclonal Antibody at dilution of 1:65(x200)



# Immunohistochemistry (Paraffin-embedded Sections)

**Image 2.** Immunohistochemistry of paraffin-embedded Human liver cancer tissue using ORC1 Polyclonal Antibody at dilution of 1:65(x200)