

ARG62573
anti-ORC1 antibody [7F6/1]Package: 100 µl, 50 µl
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody [7F6/1] recognizes ORC1
Tested Reactivity	Hu
Tested Application	WB
Host	Mouse
Clonality	Monoclonal
Clone	7F6/1
Isotype	IgG1
Target Name	ORC1
Species	Human
Immunogen	Full length protein (Human)
Conjugation	Un-conjugated
Alternate Names	ORC1L; Replication control protein 1; PARC1; Origin recognition complex subunit 1; HSORC1

Application Instructions

Application Note	WB: 1/1250 - 1/2500 * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.
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Properties

Form	Liquid
Purification	IgG purified
Buffer	1X PBS buffer with < 0.1% sodium azide.
Preservative	< 0.1% sodium azide.
Concentration	2 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Database links	GeneID: 4998 Human
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Gene Symbol	ORC1
Gene Full Name	origin recognition complex, subunit 1
Background	<p>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. [provided by RefSeq, Jun 2010]</p>
Function	<p>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. [UniProt]</p>
Research Area	Gene Regulation antibody
Calculated Mw	97 kDa
PTM	Phosphorylated during mitosis.
Cellular Localization	Nucleus