

ORC6 Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP56923

Specification

ORC6 Polyclonal Antibody - Product Information

Application
Primary Accession
Reactivity
Host
Clonality
Calculated MW
Physical State
Immunogen

Epitope Specificity Isotype **Purity** affinity purified by Protein A

Buffer

SUBCELLULAR LOCATION
SIMILARITY
Post-translational modifications

DISEASE

Important Note

Background Descriptions

IHC-P, IHC-F, IF, ICC, E

O9Y5N6
Rat, Dog
Rabbit
Polyclonal
28 KDa
Liquid

KLH conjugated synthetic peptide derived from human ORC6

181-252/252

IaG

0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.

Nucleus.

Belongs to the ORC6 family.

Phosphorylated upon DNA damage,

probably by ATM or ATR.

Defects in ORC6 are the cause of Meier-Gorlin syndrome type 3 (MGORS3) [MIM:613803]. MGORS3 is a syndrome characterized by bilateral microtia, aplasia/hypoplasia of the patellae, and severe intrauterine and postnatal growth retardation with short stature and poor

weight gain. Additional clinical findings include anomalies of cranial sutures, microcephaly, apparently low-set and simple ears, microstomia, full lips, highly arched or cleft palate, micrognathia, genitourinary tract anomalies, and various skeletal anomalies. While almost all cases have primordial dwarfism with substantial prenatal and postnatal growth retardation, not all cases have microcephaly, and microtia and absent/hypoplastic patella are absent in some. Despite the presence of microcephaly, intellect is usually normal.

research use only, not for use in human, therapeutic or diagnostic applications.

This product as supplied is intended for

The origin recognition complex (ORC) is a highly conserved six subunit 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 a subunit of the ORC complex. Gene silencing studies with small interfering RNA demonstrated that this protein plays an essential role in coordinating chromosome replication and segregation with cytokinesis. [provided by RefSeq, Oct 2010]

ORC6 Polyclonal Antibody - Additional Information

Gene ID 23594

Other Names

Origin recognition complex subunit 6, ORC6, ORC6L

Dilution

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<span class ="dilution_IHC-P">IHC-P~~N/A</span><br \><span class
="dilution_IHC-F">IHC-F~~N/A</span><br \><span class
="dilution_IF">IF~~1:50~200</span><br \><span class ="dilution_ICC">ICC~~N/A</span><br \><span class ="dilution_E">E~~N/A</span>
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Storage

Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

ORC6 Polyclonal Antibody - Protein Information

Name ORC6

Synonyms ORC6L

Function

Component of the origin recognition complex (ORC) that binds origins of replication. DNA-binding is ATP-dependent. The specific 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. Does not bind histone H3 and H4 trimethylation marks H3K9me3, H3K27me3 and H4K20me3.

Cellular Location

Nucleus.

ORC6 Polyclonal Antibody - Protocols

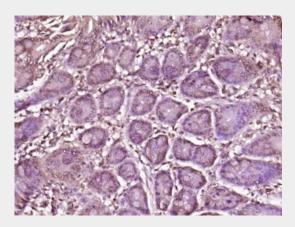
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety



• Cell Culture

ORC6 Polyclonal Antibody - Images



Paraformaldehyde-fixed, paraffin embedded (Rat colon); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (ORC6) Polyclonal Antibody, Unconjugated (bs-18027R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.