

Goat Anti-ORC4L Antibody

Peptide-affinity purified goat antibody Catalog # AF1756a

Specification

Goat Anti-ORC4L Antibody - Product Information

Application WB
Primary Accession 043929

Other Accession
Reactivity
Predicted
Host
Reactivity
Reactivity
Reactivity
Ruman, Mouse
Rat, Dog, Cow
Goat

Clonality Polyclonal Concentration 100ug/200ul

Isotype IgG Calculated MW 50377

Goat Anti-ORC4L Antibody - Additional Information

Gene ID 5000

Other Names

Origin recognition complex subunit 4, ORC4, ORC4L

Format

0.5 mg lgG/ml in Tris saline (20mM Tris pH7.3, 150mM NaCl), 0.02% sodium azide, with 0.5% bovine serum albumin

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

Goat Anti-ORC4L Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Goat Anti-ORC4L Antibody - Protein Information

Name ORC4

Synonyms ORC4L

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. Binds histone H3 and H4 trimethylation marks H3K9me3, H3K27me3 and H4K20me3.



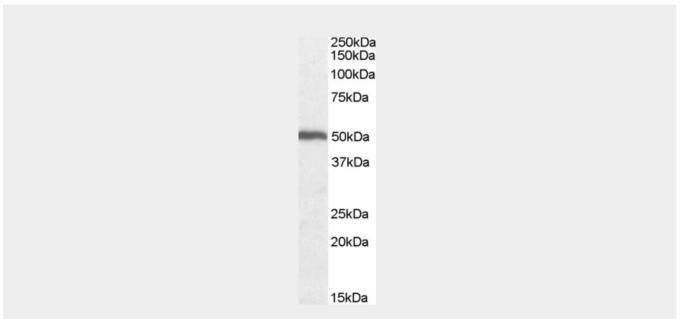
Cellular Location Nucleus.

Goat Anti-ORC4L Antibody - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- <u>Immunohistochemistry</u>
- Immunofluorescence
- <u>Immunoprecipitation</u>
- Flow Cytomety
- Cell Culture

Goat Anti-ORC4L Antibody - Images



AF1756a (0.5 μ g/ml) staining of Rat Heart lysate (35 μ g protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

Goat Anti-ORC4L Antibody - Background

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. This gene encodes a subunit of the ORC complex. It has been shown to form a core complex with ORC2L, -3L, and -5L. Several alternatively spliced transcript variants, some of which encode the same protein, have been reported for this gene.

Goat Anti-ORC4L Antibody - References

Novel ORC4L gene mutation in B-cell lymphoproliferative disorders. Radojkovic M, et al. Am J Med Sci, 2009 Dec. PMID 20010161.

Genetic variants in apoptosis and immunoregulation-related genes are associated with risk of chronic lymphocytic leukemia. Enjuanes A, et al. Cancer Res, 2008 Dec 15. PMID 19074885. ATP-dependent assembly of the human origin recognition complex. Siddiqui K, et al. J Biol Chem,





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Diversification of transcriptional modulation: large-scale identification and characterization of putative alternative promoters of human genes. Kimura K, et al. Genome Res, 2006 Jan. PMID 16344560.

Ku80 binds to human replication origins prior to the assembly of the ORC complex. Sibani S, et al. Biochemistry, 2005 May 31. PMID 15910003.