

Goat Anti-ORC4L Antibody
Peptide-affinity purified goat antibody
Catalog # AF1756a**Specification**

Goat Anti-ORC4L Antibody - Product Information

Application	WB
Primary Accession	O43929
Other Accession	NP_002543 , 5000
Reactivity	Human, Mouse
Predicted	Rat, Dog, Cow
Host	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 IgG/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](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Goat Anti-ORC4L Antibody - Images

AF1756a (0.5 µg/ml) staining of Rat Heart lysate (35 µg 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,

2007 Nov 2. PMID 17716973.

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.