10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Goat Anti-ORC3L Antibody

Peptide-affinity purified goat antibody
Catalog # AF1755a

Specification

Goat Anti-ORC3L Antibody - Product Information

Application	**WB**
Primary Accession	Q9UBD5
Other Accession	NP_036513, 23595
Reactivity	**Human**
Predicted	**Mouse, Rat, Dog, Cow**
Host	**Goat**
Clonality	**Polyclonal**
Concentration	**100ug/200ul**
Isotype	**IgG**
Calculated MW	**82254**

Goat Anti-ORC3L Antibody - Additional Information

Gene ID 23595

Other Names
Origin recognition complex subunit 3, Origin recognition complex subunit Latheo, ORC3, LATHEO, ORC3L

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-ORC3L Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Goat Anti-ORC3L Antibody - Protein Information

Name ORC3

Synonyms LATHEO, ORC3L

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. Chromosome

Goat Anti-ORC3L 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

Goat Anti-ORC3L Antibody - Images



AF1755a (2 µg/ml) staining of Hela lysate (RIPA buffer, 1.4E5 cells per lane). Detected by western blot using chemiluminescence.

Goat Anti-ORC3L Antibody - 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 a subunit of the ORC complex. Studies of a similar gene in Drosophila suggested a possible role of this protein in neuronal proliferation and olfactory memory. Alternatively spliced transcript variants encoding distinct isoforms have been reported for this gene.

Goat Anti-ORC3L Antibody - References

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.
Involvement of human ORC and TRF2 in pre-replication complex assembly at telomeres. Tatsumi Y,

et al. Genes Cells, 2008 Oct. PMID 18761675.
The genetics of symptom-based phenotypes: toward a molecular classification of schizophrenia. DeRosse P, et al. Schizophr Bull, 2008 Nov. PMID 18628273.
ATP-dependent assembly of the human origin recognition complex. Siddiqui K, et al. J Biol Chem, 2007 Nov 2. PMID 17716973.
ATM and ATR substrate analysis reveals extensive protein networks responsive to DNA damage. Matsuoka S, et al. Science, 2007 May 25. PMID 17525332.