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

ORC2L Antibody (Center) Blocking Peptide

Synthetic peptide
Catalog # BP14497c

Specification

ORC2L Antibody (Center) Blocking Peptide - Product Information

Primary Accession Q13416

ORC2L Antibody (Center) Blocking Peptide - Additional Information

Gene ID 4999

Other Names
Origin recognition complex subunit 2, ORC2, ORC2L

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

ORC2L Antibody (Center) Blocking Peptide - Protein Information

Name ORC2

Synonyms ORC2L

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, H3K20me3 and H4K27me3. Stabilizes LRWD1, by protecting it from ubiquitin-mediated proteasomal degradation. Also stabilizes ORC3.

Cellular Location
Nucleus.

ORC2L Antibody (Center) Blocking Peptide - Protocols

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

- Blocking Peptides

ORC2L Antibody (Center) Blocking Peptide - Images

ORC2L Antibody (Center) Blocking Peptide - Background

The origin recognition complex (ORC) is a highly conservedsix subunits protein complex essential for the initiation of theDNA replication in eukaryotic cells. Studies in yeast demonstratedthat ORC binds specifically to origins of replication and serves asa platform for the assembly of additional initiation factors suchas Cdc6 and Mcm proteins. The protein encoded by this gene is asubunit of the ORC complex. This protein forms a core complex withORC3, -4, and -5. It also interacts with CDC45 and MCM10, which areproteins known to be important for the initiation of DNAreplication. This protein has been demonstrated to specificallyassociate with the origin of replication of Epstein-Barr virus inhuman cells, and is thought to be required for DNA replication fromviral origin of replication. Alternatively spliced transcriptvariants have been found, one of which is a nonsense-mediated mRNAdecay candidate.

ORC2L Antibody (Center) Blocking Peptide - References

Huen, M.S., et al. Cell 131(5):901-914(2007)Siddiqui, K., et al. J. Biol. Chem. 282(44):32370-32383(2007)Olsen, J.V., et al. Cell 127(3):635-648(2006)Radichev, I., et al. J. Biol. Chem. 281(32):23264-23273(2006)Teer, J.K., et al. J. Biol. Chem. 281(10):6253-6260(2006)