

ORC2L Antibody (Center) Blocking Peptide
Synthetic peptide
Catalog # BP14497c**Specification**

ORC2L Antibody (Center) Blocking Peptide - Product InformationPrimary 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 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. This protein forms a core complex with ORC3, -4, and -5. It also interacts with CDC45 and MCM10, which are proteins known to be important for the initiation of DNA replication. This protein has been demonstrated to specifically associate with the origin of replication of Epstein-Barr virus in human cells, and is thought to be required for DNA replication from viral origin of replication. Alternatively spliced transcript variants have been found, one of which is a nonsense-mediated mRNA decay 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)