

Datasheet for 200-301-V05**ORC2 Antibody****Overview**

Description:	Anti-ORC2 (MOUSE) Monoclonal Antibody - 200-301-V05
Item No.:	200-301-V05
Size:	50 µg
Applications:	WB
Reactivity:	Human
Host Species:	Mouse

Product Details

Background:	ORC2 is one of the six subunits of the ORC (origin recognition complex) that binds origins of replication. The binding of ORC to DNA is ATP-dependent, but so far, specific DNA sequences that define origins of replication have not been identified. The ORC is required to assemble the pre-replication complex necessary to initiate DNA replication. The ORC is regulated in a cell cycle-dependent manner. It is assembled at the end of the anaphase of mitosis and disassembled when cells enter the S phase. Anti-ORC2 Antibody is ideal for research in DNA Replication, Cell Cycle Control and Cancer.
Synonyms:	Origin recognition complex subunit 2, ORC2L
Host Species:	Mouse
Clonality:	Monoclonal
Format:	IgG1

Target Details

Gene Name:	ORC2
Reactivity:	Human
Immunogen Type:	Conjugated Peptide
Immunogen:	Anti-ORC2 Antibody was produced in mice by repeated immunization with human ORC2 (origin recognition complex, subunit 2), using two recombinant proteins containing the N-terminal and C-terminal part of the protein, respectively.

Purity/Specificity: Anti-ORC2 Antibody was purified by Protein G chromatography. Cross-reactivity with ORC2 from other sources has not been determined.

Relevant Links:

- [UniProtKB - Q13416](#)
- [GeneID - 4999](#)
- [NCBI - NP_006181.1](#)

Application Details

Tested Applications: WB

Application Note: Anti-ORC2 Antibody is tested for Western Blots. Specific conditions for reactivity should be optimized by the end user. Expect a band approximately 66kDa in the appropriate cell lysate or extract.

Assay Dilutions: All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.

WB: 1:500

Formulation

Physical State: Liquid (sterile filtered)

Concentration: 0.6 mg/ml by UV absorbance at 280 nm

Buffer: 0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2

Preservative: 0.05% (w/v) Sodium Azide

Stabilizer: None

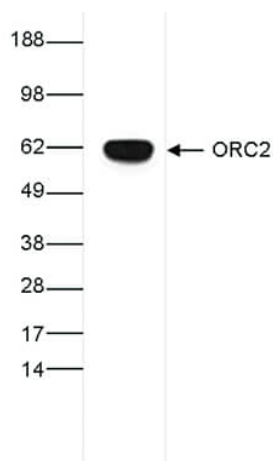
Shipping & Handling

Shipping Condition: Dry Ice

Storage Condition: Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.

Expiration: Expiration date is one (1) year from date of receipt.

Images

**Western Blot**

Western Blot results of Mouse anti-ORC2 antibody. Lane 1: 30 µg HeLa lysates. Primary antibody: Mouse anti-ORC2 antibody at 1:500 overnight at 4°C. Secondary antibody: Peroxidase anti-mouse secondary antibody at 1:10,000 for 45 min at RT. Block: PBS-Tween containing 10% BLOTTO overnight at 4°C. Predicted/Observed size: 66 kDa for Mouse ORC2.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.