

Datasheet for ABIN7602199
anti-ORC1 antibody (AA 628-861)



[Go to Product page](#)

Overview

Quantity:	100 µg
Target:	ORC1 (ORC1L)
Binding Specificity:	AA 628-861
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ORC1 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Flow Cytometry (FACS)

Product Details

Purpose:	Anti-ORC1 Antibody Picoband®
Immunogen:	E.coli-derived human ORC1 recombinant protein (Position: H628-E861).
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins.
Characteristics:	Anti-ORC Antibody Picoband® (ABIN7602199). Tested in ELISA, Flow Cytometry, WB applications. This antibody reacts with Human. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Purification:	Immunogen affinity purified.

Target Details

Target:	ORC1 (ORC1L)
Alternative Name:	ORC1 (ORC1L Products)
Background:	Synonyms: Muscarinic acetylcholine receptor M2,CHRM2, Tissue Specificity: Isoform 1 is predominantly expressed in thymus and is also found in peripheral blood leukocytes and kidney. Isoform 2 is predominantly expressed in skeletal muscle and is also found in thymus, kidney, testis, spleen, prostate, ovary, small intestine, heart, placenta and pancreas. Isoform 3 is expressed in thymus and kidney. Isoform 4 is expressed in thymus and skeletal muscle. Background: Origin recognition complex subunit 1 is a protein that in humans is encoded by the ORC1 gene. 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 the largest subunit of the ORC complex. While other ORC subunits are stable throughout the cell cycle, the levels of this protein vary during the cell cycle, which has been shown to be controlled by ubiquitin-mediated proteolysis after initiation of DNA replication. This protein is found to be selectively phosphorylated during mitosis. It is also reported to interact with MYST histone acetyltransferase 2 (MyST2/HBO1), a protein involved in control of transcription silencing. Alternatively spliced transcript variants encoding different isoforms have been found for this gene.
Molecular Weight:	100 kDa
Gene ID:	4998
UniProt:	Q13415
Pathways:	Mitotic G1-G1/S Phases , DNA Replication , Synthesis of DNA

Application Details

Application Notes:	Western blot, 0.25-0.5 µg/mL, Human Flow Cytometry (Fixed), 1-3 µg/1x10⁶ cells, Human ELISA, 0.1-0.5 µg/mL, - 1. Bicknell, L. S., Bongers, E. M. H. F., Leitch, A., Brown, S., Schoots, J., Harley, M. E., Aftimos, S., Al-Aama, J. Y., Bober, M., Brown, P. A. J., van Bokhoven, H., Dean, J., and 15 others. Mutations in the pre-replication complex cause Meier-Gorlin syndrome. Nature Genet. 43: 356-359, 2011. 2. Bicknell, L. S., Walker, S., Klingseisen, A., Stiff, T., Leitch, A., Kerzendorfer, C., Martin, C.-A., Yeyati,
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Application Details

P., Al Sanna, N., Bober, M., Johnson, D., Wise, C., Jackson, A. P., O'Driscoll, M., Jeggo, P. A. Mutations in ORC1, encoding the largest subunit of the origin recognition complex, cause microcephalic primordial dwarfism resembling Meier-Gorlin syndrome. Nature Genet. 43: 350-355, 2011. 3. Bongers, E. M. H. F., Opitz, J. M., Fryer, A., Sarda, P., Hennekam, R. C. M., Hall, B. D., Superneau, D. W., Harbison, M., Poss, A., van Bokhoven, H., Hamel, B. C. J., Knoers, N. V. A. M. Meier-Gorlin syndrome: report of eight additional cases and review. Am. J. Med. Genet. 102: 115-124, 2001.

Restrictions: For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Adding 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
Storage:	4 °C,-20 °C
Storage Comment:	At -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freezing and thawing.