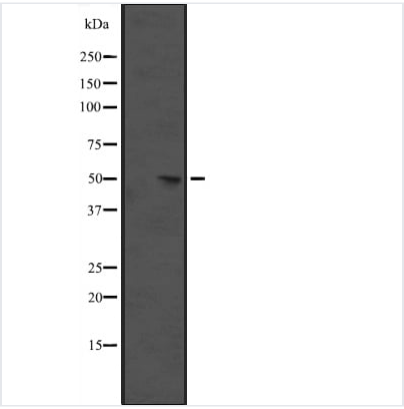
ORC5 Antibody – Rabbit Polyclonal

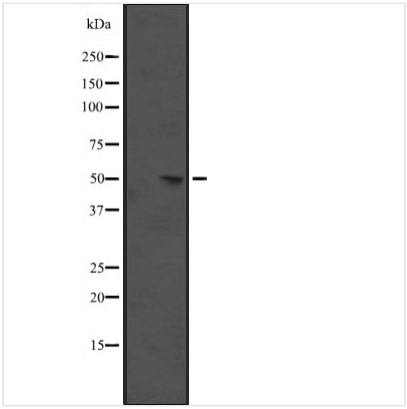
PRODUCT OVERVIEW

Product Name	ORC5, Polyclonal Antibody
Full Product Name	ORC5 Antibody
Product Gene Name	anti-ORC5 antibody
Product Synonym Names	ORC5; ORC5_HUMAN; ORC5L; ORC5P; ORC5T; Origin recognition complex subunit 5; Origin recognition complex subunit 5 like
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purity/Purification	Peptide affinity purification
Concentration	1mg/ml (lot specific)
Specificity	ORC5 antibody detects endogenous levels of total ORC5
Antibody/Peptide Pairs	ORC5 peptide (MBS9622834) is used for blocking the activity of ORC5 antibody (MBS9604117)
Molecular Weight	50 kDa
3D Structure	ModBase 3D Structure for O43913
Supply Chain Verification	Manufactured in a lab with traceable raw materials manufactured on site. Coordinated product portfolio of antibodies, pairs, conjugates, recombinant proteins, and immunoassay materials available, please inquire.
Immunogen	A synthesized peptide derived from human ORC5, corresponding to a region within the internal amino acids.
Conjugation	Unconjugated
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-ORC5 antibody	Western Blot (WB), ELISA (EIA)
Application Notes for anti-ORC5 antibody	WB: 1:500-1:2000 ELISA(peptide): 1:20000-1:40000 The optimal dilutions should be determined by the end user. IMPORTANT: For western blot, incubate membrane with diluted primary Ab in 5% w/v milk , 1X TBS, 0.1% Tween®20 at 4°C with gentle shaking, overnight.
Related Product Information for anti-ORC5 antibody	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. Subunit Structure: Component of ORC, a complex composed of at least 6 subunits: ORC1, ORC2, ORC3, ORC4, ORC5 and ORC6. ORC is regulated in a cell-cycle dependent manner. It is sequentially assembled at the exit from anaphase of mitosis and disassembled as cells enter S phase. Similarity: Belongs to the ORC5 family.

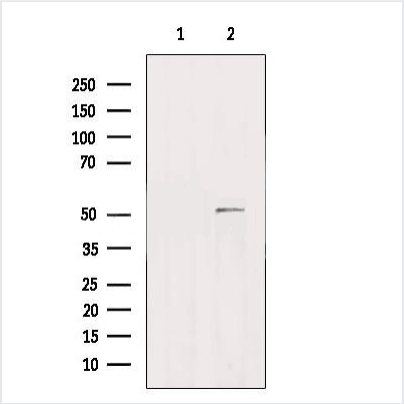
Other Notes	Small volumes of anti-ORC5 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for ORC5 purchase	MBS9604117 is an antibody targeting ORC5. Also known as ORC5 Antibody. Reactive in Human, Mouse. Host: Rabbit.



Western Blot (WB) of anti-ORC5 antibody
Western blot analysis of ORC5 expression in Human fetal brain lysate;, The lane on the left is treated with the antigen-specific peptide.



Western Blot (WB) of anti-ORC5 antibody
Western blot analysis of ORC5 expression in Human fetal brain lysate;, The lane on the left is treated with the antigen-specific peptide.



Western Blot (WB) of anti-ORC5 antibody
Western blot analysis of extracts from Mouse spleen, using ORC5 Antibody. The lane on the left was treated with blocking peptide.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ORC5. It may not necessarily be applicable to this product.

NCBI GI #	4505525
NCBI GeneID	5001
NCBI Accession #	NP_002544.1
UniProt Primary Accession #	O43913
UniProt Secondary Accession #	O60590; O95268; A4D0P8
UniProt Related Accession #	O43913
GenBank Nucleotide #	NM_002553.3
NCBI Official Full Name	origin recognition complex subunit 5 isoform 1
NCBI Official Synonym Full Names	origin recognition complex subunit 5
NCBI Official Symbol	ORC5

NCBI Official Synonym Symbols	ORC5L; ORC5P; ORC5T; PPP1R117
UniProt Protein Name	Origin recognition complex subunit 5
Protein Family	ORC1-type DNA replication protein
UniProt Gene Name	ORC5
UniProt Synonym Gene Names	ORC5L
NCBI Protein Information	origin recognition complex subunit 5
NCBI Summary for ORC5	The origin recognition complex (ORC) is a highly conserved six subunit 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. Alternatively spliced transcript variants encoding distinct isoforms have been described. [provided by RefSeq, Oct 2010]
UniProt Comments for ORC5	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.
Research Articles on ORC5	**1.** Orc5 associates with the H3 histone acetyl transferase GCN5 (also known as KAT2A), and this association enhances the chromatin-opening function of Orc5.
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