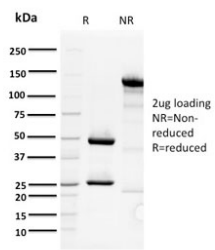
ORC1 Antibody / Origin Recognition Complex 1 [clone 7F6/1] (V7992)

Catalog No.	Formulation	Size
V7992-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V7992-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V7992SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG1, kappa
Clone Name	7F6/1
Purity	Protein G affinity chromatography
UniProt	Q13415
Applications	ELISA (order BSA-free Format For Coating) :
Limitations	This ORC1 antibody is available for research use only.



SDS-PAGE analysis of purified, BSA-free ORC1 antibody (clone 7F6/1) as confirmation of integrity and purity.

Description

The initiation of DNA replication is a multi-step process that depends on the formation of pre-replication complexes, which trigger initiation. Among the proteins required for establishing these complexes are the origin recognition complex (ORC)

proteins. ORC proteins bind specifically to origins of replication where they serve as scaffold for the assembly of additional initiation factors. Human ORC subunits 1-6 are expressed in the nucleus of proliferating cells and tissues, such as the testis. ORC1 and ORC2 are both expressed at equivalent concentrations throughout the cell cycle; however, only ORC2 remains stably bound to chromatin. ORC4 and ORC6 are also expressed constantly throughout the cell cycle. ORC2, ORC3, ORC4 and ORC5 form a core complex upon which ORC6 and ORC1 assemble. The formation of this core complex suggests that ORC proteins play a crucial role in the G1-S transition in mammalian cells.

Application Notes

Optimal dilution of the ORC1 antibody should be determined by the researcher.

Immunogen

A recombinant full-length human ORC1 protein was used as the immunogen for this ORC1 antibody.

Storage

Store the ORC1 antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).