

Recombinant

DGRmAb®

## MCM7 (DGR17001) Rabbit mAb

db11990

Package : 10µL 20µL 50µL 100µL

**Product Name :** MCM7 (DGR17001) Rabbit mAb

**Cat.No.:** db11990

**Synonyms :** MCM2; CDC47; P85MCM; P1CDC47; PNAS146; PPP1R104; P1.1-MCM3

**Application :** WB, IHC-P, ICC/IF, FC, IP

**Reactivity :** Human,Mouse,Rat

**Host species :** Rabbit

### Background

The protein encoded by this gene is one of the highly conserved mini-chromosome maintenance proteins (MCM) that are essential for the initiation of eukaryotic genome replication. The hexameric protein complex formed by the MCM proteins is a key component of the pre-replication complex (pre\_RC) and may be involved in the formation of replication forks and in the recruitment of other DNA replication related proteins. The MCM complex consisting of this protein and MCM2, 4 and 6 proteins possesses DNA helicase activity, and may act as a DNA unwinding enzyme. Cyclin D1-dependent kinase, CDK4, is found to associate with this protein, and may regulate the binding of this protein with the tumoursuppressor protein RB1/RB. Alternatively spliced transcript variants encoding distinct isoforms have been reported. [provided by RefSeq, Jul 2008]

### Immunogen

A synthetic peptide of human MCM7

### Gene ID

4176

### Swiss Prot

P33993

### Synonyms

MCM2; CDC47; P85MCM; P1CDC47; PNAS146; PPP1R104; P1.1-MCM3

### Reactivity

Human,Mouse,Rat

### Application

WB, IHC-P, ICC/IF, FC, IP

### Recommended dilution

WB: 1:1000

IHC-P: 1:50

ICC/IF: 1:50

FC: 1:20

IP: 1:20

### Calculated MW

81 kDa

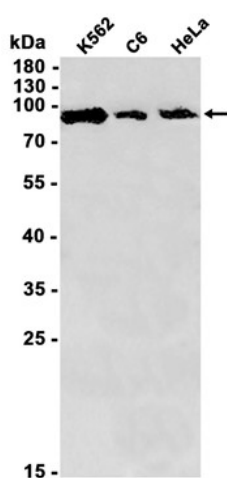
### Observed MW

81 kDa

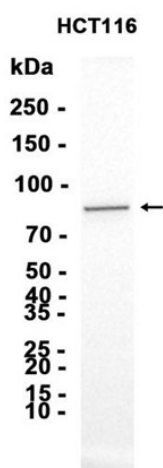
### Host species

Rabbit

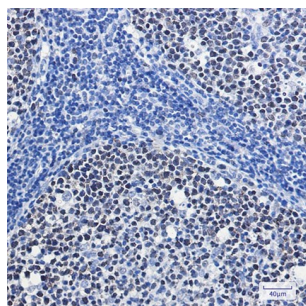
<b>Clonality</b>	Monoclonal
<b>Clonality No.</b>	DGR17001
<b>Isotype</b>	IgG
<b>Purity</b>	Affinity Purification
<b>Conjugation</b>	Un-conjugated
<b>Storage Stability</b>	Store at -20°C. Supplied in 50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40% Glycerol, 0.01% sodium azide and 0.05% BSA. Stable for 12 months from date of receipt.



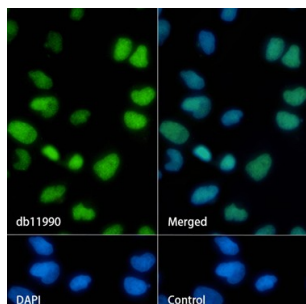
Western blot analysis of extracts from K562, C6, HeLa cells using db11990 at 1:1000.



Western blot analysis of extracts from HCT116 cells using db11990 at 1:2000.



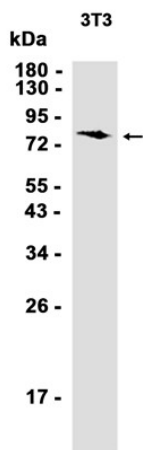
Immunohistochemical analysis of paraffin-embedded human tonsil using db11990 antibody.



Immunofluorescence analysis of HeLa cells labelling MCM7 with db11990.

The cells were fixed with 4% PFA (10min, RT) followed by treatment with 0.1% Triton X-100 (10min, RT), and blocked in 1% BSA/10% normal goat serum/0.3M glycine in 0.1% PBS-Tween 20 for 1h. The cells were then incubate with db11990(1:50) at room temprature for 1h, followed by a further incubation at room temperature for 45min with Goat Anti Rabbit IgG (H+L)-AF488 (db10005, shown in green). Nuclear DNA was labeled in blue with DAPI.

Control: Secondary antibody only.



Western blot analysis of extracts from 3T3 cells using db11990 at 1:1000.