Datasheet for ABIN6991546

anti-GEMC1 antibody (AA 130-180)

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Overview

Quantity:	0.1 mg
Target:	GEMC1 (GMNC)
Binding Specificity:	AA 130-180
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This GEMC1 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA

Product Details

Immunogen:	GEMC1 antibody was raised against a 19 amino acid synthetic peptide near the center of human GEMC1. The immunogen is located within amino acids 130 - 180 of GEMC1.
Isotype:	IgG
Purification:	GEMC1 Antibody is affinity chromatography purified via peptide column.

Target Details

Target:	GEMC1 (GMNC)
Alternative Name:	GEMC1 (GMNC Products)
Background:	GEMC1 Antibody: The Geminin coiled-coil domain-containing protein 1 (GEMC1) is a highly conserved protein that is required for chromosomal replication. GEMC1 contains a region similar to the coiled-coil domain of geminin, an essential vertebrate replication protein in which

Target Details

	the coiled-coil domain is required for the function. GEMC1 binds to the checkpoint and replication factor TopBP1, allowing the binding of GEMC1 to chromatin during pre-replication complex formation. GEMC1 also directly interacts with replication factors Cdc45 and Cdk2-CyclinE and stimulates the initiation of DNA replication. Depletion of GEMC1 by siRNA in embryonic and somatic vertebrate cells prevents DNA replication due to impairment of Cdc45 loading onto chromatin, suggesting GEMC1 promotes initiation of DNA replication by mediating TopBP1 and Cdk2 dependent recruitment of Cdc45 onto replication origins.
Gene ID:	647309
NCBI Accession:	NP_001140158
UniProt:	A6NCL1

Application Details

Application Notes:	GEMC1 antibody can be used for detection of GEMC1 by Western blot at 1 µ,g/mL. Antibody validated: Western Blot in mouse samples. All other applications and species not yet tested.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	1 mg/mL
Buffer:	GEMC1 Antibody is supplied in PBS containing 0.02 % sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C,4 °C
Storage Comment:	GEMC1 antibody can be stored at 4°C for three months and -20°C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.