

ARG63520
anti-CDT1 / Dup antibodyPackage: 100 µg
Store at: -20°C

Summary

Product Description	Goat Polyclonal antibody recognizes CDT1 / Dup
Tested Reactivity	Hu
Tested Application	WB
Host	Goat
Clonality	Polyclonal
Isotype	IgG
Target Name	CDT1 / Dup
Species	Human
Immunogen	C-ARLAHQTRAEEGL
Conjugation	Un-conjugated
Alternate Names	DUP; DNA replication factor Cdt1; RIS2; Double parked homolog

Application Instructions

Application table	Application	Dilution
	WB	1 - 3 µg/ml

Application Note WB: Recommend incubate at RT for 1h.
* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Properties

Form	Liquid
Purification	Purified from goat serum by antigen affinity chromatography.
Buffer	Tris saline (pH 7.3), 0.02% Sodium azide and 0.5% BSA.
Preservative	0.02% Sodium azide
Stabilizer	0.5% BSA
Concentration	0.5 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Database links	GeneID: 81620 Human Swiss-port # O9H211 Human
Background	The protein encoded by this gene is involved in the formation of the pre-replication complex that is necessary for DNA replication. The encoded protein can bind geminin, which prevents replication and may function to prevent this protein from initiating replication at inappropriate origins. Phosphorylation of this protein by cyclin A-dependent kinases results in degradation of the protein. [provided by RefSeq, Mar 2011]
Research Area	Gene Regulation antibody
Calculated Mw	60 kDa
PTM	Two independent E3 ubiquitin ligase complexes, SCF(SKP2) and the DCX(DTL) complex, mediated CDT1 degradation in S phase. Ubiquitinated by the DCX(DTL) complex, in response to DNA damage, leading to its degradation. Ubiquitination by the DCX(DTL) complex is necessary to ensure proper cell cycle regulation and is PCNA-dependent: interacts with PCNA via its PIP-box, while the presence of the containing the 'K+4' motif in the PIP box, recruit the DCX(DTL) complex, leading to its degradation. Phosphorylation at Thr-29 by CDK2 targets CDT1 for ubiquitination by SCF(SKP2) E3 ubiquitin ligase and subsequent degradation (PubMed:14993212). The interaction with GMNN protects it against ubiquitination. Deubiquitinated by USP37 (PubMed:27296872). Phosphorylation by cyclin A-dependent kinases at Thr-29 targets CDT1 for ubiquitynation by SCF(SKP2) E3 ubiquitin ligase and subsequent degradation (PubMed:14993212). Phosphorylated at Thr-29 by MAPK8/JNK1, which blocks replication licensing in response to stress (PubMed:21856198). Binding to GMNN is not affected by phosphorylation.

Images



ARG63520 anti-CDT1 / Dup antibody WB image

Western Blot: Human Ovary lysate (35 µg protein in RIPA buffer) stained with ARG63520 anti-CDT1 / Dup antibody at 0.05 µg/ml dilution.