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Goat Anti-CDT1 / Dup Antibody
Peptide-affinity purified goat antibody
Catalog # AF1223a

Specification

Goat Anti-CDT1 / Dup Antibody - Product Information

Application	**WB**
Primary Accession	Q9H211
Other Accession	NP_112190, 81620
Reactivity	**Human**
Host	**Goat**
Clonality	**Polyclonal**
Concentration	**100ug/200ul**
Isotype	**IgG**
Calculated MW	**60390**

Goat Anti-CDT1 / Dup Antibody - Additional Information

Gene ID 81620

Other Names
DNA replication factor Cdt1, Double parked homolog, DUP, CDT1 {ECO:0000312|EMBL:AAG45181.1}

Format
0.5 mg IgG/ml in Tris saline (20mM Tris pH7.3, 150mM NaCl), 0.02% sodium azide, with 0.5% bovine serum albumin

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
Goat Anti-CDT1 / Dup Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Goat Anti-CDT1 / Dup Antibody - Protein Information

Name CDT1 {ECO:0000312|EMBL:AAG45181.1}

Function
Required for both DNA replication and mitosis (PubMed:11125146, PubMed:22581055, PubMed:21856198, PubMed:14993212, PubMed:26842564). DNA

replication licensing factor, required for pre- replication complex assembly. Cooperates with CDC6 and the origin recognition complex (ORC) during G1 phase of the cell cycle to promote the loading of the mini-chromosome maintenance (MCM) complex onto DNA to generate pre-replication complexes (pre-RC)(PubMed:14672932). Required also for mitosis by promoting stable kinetochore-microtubule attachments (PubMed:22581055). Potential oncogene (By similarity).

Cellular Location
Nucleus. Chromosome, centromere, kinetochore. Note=Transiently localizes to kinetochores during prometaphase and metaphase

Goat Anti-CDT1 / Dup Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Goat Anti-CDT1 / Dup Antibody - Images



AF1223a (0.05 µg/ml) staining of Human Ovary lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

Goat Anti-CDT1 / Dup Antibody - References

Quaternary structure of the human Cdt1-Geminin complex regulates DNA replication licensing. De Marco V, et al. Proc Natl Acad Sci U S A, 2009 Nov 24. PMID 19906994.
Acetylation/deacetylation modulates the stability of DNA replication licensing factor Cdt1. Glozak MA, et al. J Biol Chem, 2009 Apr 24. PMID 19276081.
Human CDT1 associates with CDC7 and recruits CDC45 to chromatin during S phase. Ballabeni A, et al. J Biol Chem, 2009 Jan 30. PMID 19054765.
HBO1 histone acetylase is a coactivator of the replication licensing factor Cdt1. Miotto B, et al.

Genes Dev, 2008 Oct 1. PMID 18832067.
MCM9 binds Cdt1 and is required for the assembly of prereplication complexes. Lutzmann M, et al. Mol Cell, 2008 Jul 25. PMID 18657502.