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Datasheet for ABIN6942498 **anti-CDT1 antibody**

Overview

Quantity:	100 µL
Target:	CDT1
Reactivity:	Human
Host:	Rabbit
Clonality:	Monoclonal
Conjugate:	This CDT1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Immunogen:	Human CDT1 aa 100 to the C-terminus
Clone:	2H5
Isotype:	IgG
Cross-Reactivity:	Human
Cross-Reactivity (Details):	WB(1:500-1000), IHC-P(1:25-50)
Purification:	Purified by Protein A.

Target Details

Target:	CDT1
Alternative Name:	CDT1 (CDT1 Products)
Background:	Synonyms: DNA replication factor Cdt1, Double parked homolog, DUP, CDT1, chromatin

Target Details

licensing and DNA replication factor 1.

Background: Human Cdt1 is a nuclear localizing replication initiation factor that is expressed only during the G1 and S phases of the cell cycle. In conjunction with Cdc18, Cdt1 is required to load the MCM protein Cdc21 onto chromatin at the end of mitosis which is necessary to initiate DNA replication. After S-phase onset, Cdt1 protein levels decrease and are barely detectable in cells in early S-phase or G2. However, Cdt1 mRNA is expressed in S-phase-arrested cells, and its levels do not change dramatically during the cell cycle, suggesting that proteolytic degradation rather than transcriptional controls ensure proper accumulation of Cdt1. Cdt1 can associate with the DNA replication inhibitor geminin, which is present in the S and G2 phases of the cell cycle. Inhibition of DNA replication by geminin in cell-free DNA replication extracts can be reversed by the addition of excess Cdt1. Geminin may be responsible for preventing inappropriate origin firing by targeting Cdt1.

Gene ID: 81620

UniProt: [Q9H211](#)

Pathways: [MAPK Signaling](#), [Mitotic G1-G1/S Phases](#), [DNA Replication](#), [Synthesis of DNA](#)

Application Details

Application Notes: WB 1:300-5000
IHC-P 1:200-400

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 1 µg/µL

Buffer: Aqueous buffered solution containing 1xTBS (pH 7.4), 1 % BSA, 40 %Glycerol and 0.05 % Sodium Azide.

Preservative: ProClin

Precaution of Use: This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.

Storage: -20 °C

Storage Comment: Store at -20°C for 12 months.

Handling

Expiry Date: 12 months