

## CDT1 Rabbit mAb

Catalog No: #49574

Package Size: #49574-1 50ul #49574-2 100ul

Orders: [order@signalwayantibody.com](mailto:order@signalwayantibody.com)Support: [tech@signalwayantibody.com](mailto:tech@signalwayantibody.com)

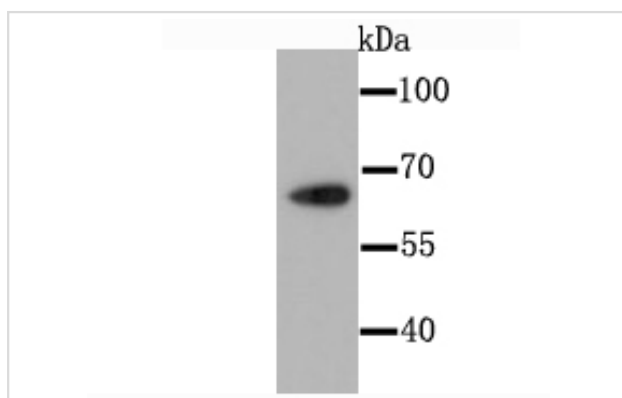
## Description

Product Name	CDT1 Rabbit mAb
Host Species	Recombinant Rabbit
Clonality	Monoclonal antibody
Clone No.	JA30-81
Purification	ProA affinity purified
Applications	WB, IHC, IP
Species Reactivity	Hu
Immunogen Description	recombinant protein
Other Names	CDT 1 antibody cdt1 antibody CDT1_HUMAN antibody Chromatin licensing and DNA replication factor 1 antibody DNA replication factor antibody DNA replication factor Cdt1 antibody Double parked antibody Double parked Drosophila homolog of antibody Double parked homolog antibody DUP antibody Retroviral integration site 1 antibody Retroviral integration site 2 antibody Retroviral integration site1 antibody Retroviral integration site2 antibody RIS 2 antibody RIS2 antibody
Accession No.	Swiss-Prot#:Q9H211
Uniprot	Q9H211
GeneID	81620;
Calculated MW	60 kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

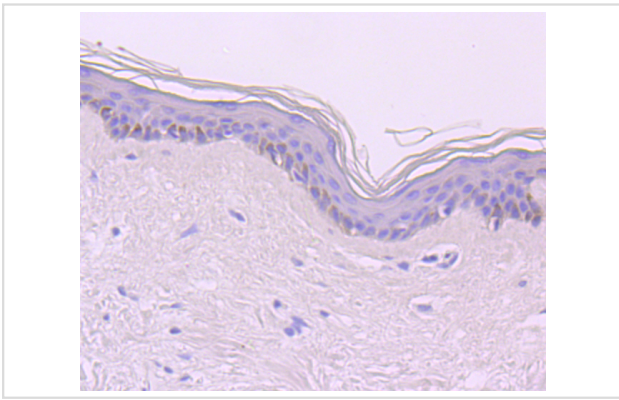
## Application Details

WB: 1:500-1:1,000 IHC: 1:25-1:50

## Images



Western blot analysis of CDT1 on Hela cell using anti-CDT1 antibody at 1/1,000 dilution.



Immunohistochemical analysis of paraffin-embedded human skin tissue using anti-CDT1 antibody. Counter stained with hematoxylin.

## 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.

## References

Note: This product is for in vitro research use only