CDT1 Conjugated Antibody

Catalog No: #C49574

Package Size: #C49574-AF350 100ul #C49574-AF405 100ul #C49574-AF488 100ul #C49574-AF555 100ul #C49574-AF594 100ul #C49574-AF647 100ul #C49574-AF680 100ul #C49574-AF750 100ul #C49574-Biotin 100ul

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

Description

Product Name	CDT1 Conjugated Antibody
Host Species	Rabbit
Clonality	Monoclonal
Species Reactivity	Hu
Immunogen Description	recombinant protein
Conjugates	Biotin AF350 AF405 AF488 AF555 AF594 AF647 AF680 AF750
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;
Excitation Emission	AF350: 346nm/442nm AF405: 401nm/421nm AF488: 493nm/519nm AF555: 555nm/565nm AF594: 591nm/614nm AF647: 651nm/667nm AF680: 679nm/702nm AF750: 749nm/775nm
Calculated MW	60 kDa
Formulation	0.01M Sodium Phosphate, 0.25M NaCl, pH 7.6, 5mg/ml Bovine Serum Albumin, 0.02% Sodium Azide
Storage	Store at 4°C in dark for 6 months

Application Details

Suggested Dilution:

AF350 conjugated: most applications: 1: 50 - 1: 250

AF405 conjugated: most applications: 1: 50 - 1: 250

AF488 conjugated: most applications: 1: 50 - 1: 250

AF555 conjugated: most applications: 1: 50 - 1: 250

AF594 conjugated: most applications: 1: 50 - 1: 250

AF647 conjugated: most applications: 1: 50 - 1: 250

AF680 conjugated: most applications: 1: 50 - 1: 250

AF750 conjugated: most applications: 1: 50 - 1: 250

Biotin conjugated: working with enzyme-conjugated streptavidin, most applications: 1: 50 - 1: 1,000

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.

Note: This product is for in vitro research use only