

Product datasheet

Anti-CDT2/RAMP antibody [EPR14978] - BSA and Azide free ab232608

Recombinant RabMAb

[4 Images](#)

Overview

Product name	Anti-CDT2/RAMP antibody [EPR14978] - BSA and Azide free
Description	Rabbit monoclonal [EPR14978] to CDT2/RAMP - BSA and Azide free
Host species	Rabbit
Tested applications	Suitable for: WB, IHC-P, ICC/IF, Flow Cyt
Species reactivity	Reacts with: Mouse, Rat, Human
Immunogen	Recombinant fragment within Human CDT2/RAMP aa 50-200. The exact sequence is proprietary. Database link: Q9NZJ0
Positive control	IHC-P: Human testis tissue.
General notes	ab232608 is the carrier-free version of ab184548 This format is designed for use in antibody labeling, including fluorochromes, metal isotopes, oligonucleotides, enzymes.

Our [carrier-free formats](#) are supplied in a buffer free of BSA, sodium azide and glycerol for higher conjugation efficiency.

Use our [conjugation kits](#) for antibody conjugates that are ready-to-use in as little as 20 minutes with <1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.

Ab232608 is compatible with the Maxpar® Antibody Labeling Kit from Fluidigm.

Maxpar® is a trademark of Fluidigm Canada Inc.

This product was previously labelled as CDT2

This product is a recombinant monoclonal antibody, which offers several advantages including:

- High batch-to-batch consistency and reproducibility
- Improved sensitivity and specificity
- Long-term security of supply
- Animal-free production

For more information [see here](#).

Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to [RabMAb® patents](#).

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	Constituent: PBS
Carrier free	Yes
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR14978
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab232608** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		Use at an assay dependent concentration. Predicted molecular weight: 79 kDa.
IHC-P		Use at an assay dependent concentration. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
ICC/IF		Use at an assay dependent concentration.
Flow Cyt		Use at an assay dependent concentration.

Target

Function	Substrate-specific adapter of a DCX (DDB1-CUL4-X-box) E3 ubiquitin-protein ligase complex required for cell cycle control, DNA damage response and translesion DNA synthesis. The DCX(DTL) complex, also named CRL4(CDT2) complex, mediates the polyubiquitination and subsequent degradation of CDT1 and CDKN1A/p21(CIP1). CDT1 degradation in response to DNA damage is necessary to ensure proper cell cycle regulation of DNA replication. CDKN1A/p21(CIP1) degradation during S phase or following UV irradiation is essential to control replication licensing. Most substrates require their interaction with PCNA for their polyubiquitination: substrates interact with PCNA via their PIP-box, and those containing the 'K+4' motif in the PIP box, recruit the DCX(DTL) complex, leading to their degradation. In undamaged proliferating cells, the DCX(DTL) complex also promotes the 'Lys-164' monoubiquitination of PCNA, thereby being involved in PCNA-dependent translesion DNA synthesis.
Tissue specificity	Expressed in placenta and testis, very low expression seen in skeletal muscle. Detected in all hematopoietic tissues examined, with highest expression in thymus and bone marrow. A low level detected in the spleen and lymph node, and barely detectable level in the peripheral leukocytes. RA treatment down-regulated the expression in NT2 cell.
Pathway	Protein modification; protein ubiquitination.
Sequence similarities	Belongs to the WD repeat cdt2 family.

Contains 7 WD repeats.

Developmental stage

Expressed in all fetal tissues examined, included brain, lung, liver, and kidney.

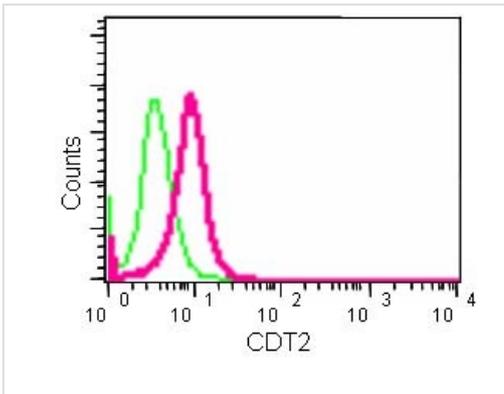
Post-translational modifications

Ubiquitinated by the anaphase promoting complex/cyclosome (APC/C).
Phosphorylated upon DNA damage, probably by ATM or ATR.

Cellular localization

Nucleus. Nucleus membrane. Cytoplasm > cytoskeleton > centrosome. Nuclear matrix-associated protein. Translocates from the interphase nucleus to the metaphase cytoplasm during mitosis.

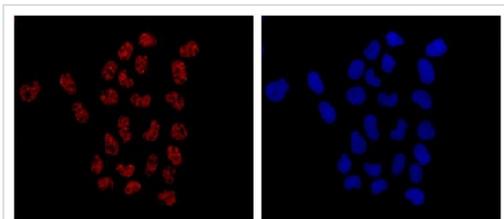
Images



Flow Cytometry - Anti-CDT2/RAMP antibody
[EPR14978] - BSA and Azide free (ab232608)

Flow cytometry analysis of 2% paraformaldehyde fixed HeLa cells labeling CDT2/RAMP using [ab184548](#) at a 1/240 dilution (red) with negative control, Rabbit monoclonal IgG (green). Secondary antibody, Goat anti rabbit IgG (FITC) at a 1/150 dilution.

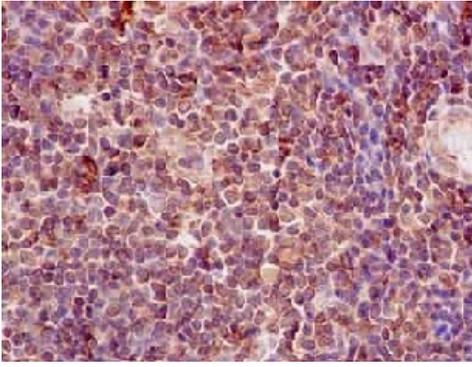
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab184548](#)).



Immunocytochemistry/ Immunofluorescence - Anti-CDT2/RAMP antibody [EPR14978] - BSA and Azide free (ab232608)

Immunofluorescent staining of 4% paraformaldehyde fixed HeLa cells labeling CDT2/RAMP using [ab184548](#) at a 1/100 dilution and Goat anti-rabbit IgG (Alexa Fluor[®] 555) secondary at a 1/200 dilution (red). Counterstained with DAPI (blue).

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab184548](#)).

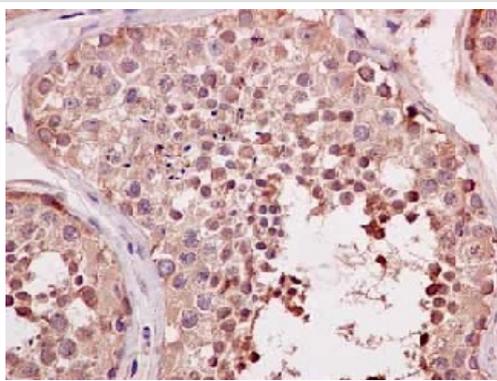


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CDT2/RAMP antibody [EPR14978] - BSA and Azide free (ab232608)

Immunohistochemical analysis of paraffin-embedded sections of human thymus tissue labeling CDT2/RAMP using [ab184548](#) at a 1/100 dilution, counterstained with hematoxylin.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab184548](#)).

Perform heat mediated antigen retrieval with EDTA buffer pH 9 before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CDT2/RAMP antibody [EPR14978] - BSA and Azide free (ab232608)

Immunohistochemical analysis of paraffin-embedded sections of human testis tissue labeling CDT2/RAMP using [ab184548](#) at a 1/100 dilution, counterstained with hematoxylin.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab184548](#)).

Perform heat mediated antigen retrieval with EDTA buffer pH 9 before commencing with IHC staining protocol.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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