10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Cyclin O Antibody
Catalog # ASC10436

Specification

Cyclin O Antibody - Product Information

Application	**WB, E**
Primary Accession	P22674
Other Accession	NP_066970, 153791755
Reactivity	**Human, Mouse, Rat**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**IgG**
Calculated MW	**39 kDa KDa**
Application Notes	**Cyclin O antibody can be used for the detection of Cyclin O by Western blot at 1 - 2 µg/mL.**

Cyclin O Antibody - Additional Information

Gene ID **10309**

Other Names
Cyclin O Antibody: CCNU, UDG2, Cyclin-O, Cyclin O

Target/Specificity
CCNO; At least two isoforms of Cyclin O are known to exist; this antibody will recognize both isoforms.

Reconstitution & Storage
Cyclin O antibody can be stored at 4℃ for three months and -20℃, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.

Precautions
Cyclin O Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Cyclin O Antibody - Protein Information

Name CCNO (HGNC:18576)

Function
Specifically required for generation of multiciliated cells, possibly by promoting a cell cycle state compatible with centriole amplification and maturation. Acts downstream of MCIDAS to promote mother centriole amplification and maturation in preparation for apical docking.

Cellular Location
Cytoplasm. Nucleus, nucleolus Note=Localizes to the apical part of cytoplasm

Tissue Location

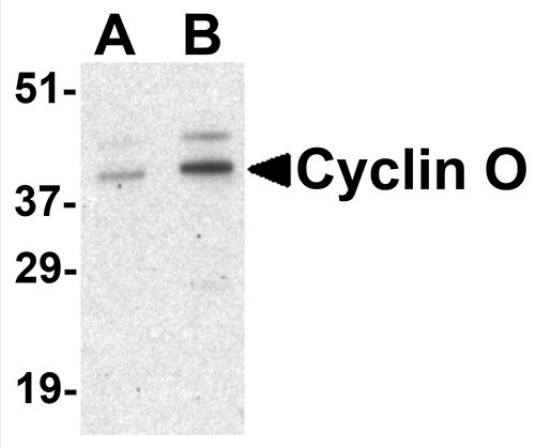
Present in respiratory cells (at protein level).

Cyclin O 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

Cyclin O Antibody - Images



Western blot analysis of Cyclin O in human bladder tissue lysate with Cyclin O antibody at (A) 1 and (B) 2 µg/mL.

Cyclin O Antibody - Background

Cyclin O Antibody: Cyclin O, also known as CCNO, has recently been identified as a Cdk1- and Cdk2-activating cyclin specific to apoptosis in lymphoid cells. Cyclin O binds to and activates Cdk2 in response to instrinsic apoptotic stimuli such as glucocorticoids or DNA-damaging agents. Supression of Cyclin O expression by shRNA leads to the inhibition of glucocorticoid and DNA-damage-induced apoptosis due to a failure of apical caspase activation while leaving the CD95 death receptor-mediated apoptosis intact. Note: this gene, which had a previous symbol of UNG2, was erroneously identified as a uracil DNA glycosylase. A later publication identified this gene's product as a cyclin protein family member.

Cyclin O Antibody - References

Roig MB, Roset R, Ortet L, et al. Identification of a novel cyclin required for the intrinsic apoptosis pathway in lymphoid cells. Cell Death Diff. 2009; 16:230-43.
Muller SJ and Caradonna S. Isolation and characterization of a human cDNA encoding uracil-DNA glycosylase. Biochim. Biophys. Acta 1991; 1088:197-207.
Muller SJ and Caradonna S. Cell cycle regulation of a human cyclin-like gene encoding uracil-DNA glycosylase. J. Biol. Chem. 1993; 268:1310-9.

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