

prosci-inc.com





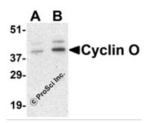
HIGH PERFORMANCE ANTIBODIES ... AND MORE

ProSci Incorporated 12170 Flint Place Poway, CA 92064 Toll Free: +1 (888) 513 9525 Local: +1 (858) 513 2638 Fax: +1 (858) 513 2692

techsupport@prosci-inc.com

Cyclin O Antibody

CATALOG NUMBER: 3861



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

Specifications	
SPECIES REACTIVITY:	Human, Mouse, Rat
TESTED APPLICATIONS:	ELISA, WB
APPLICATIONS:	Cyclin O antibody can be used for the detection of Cyclin O by Western blot at 1 - 2 ug/mL.
USER NOTE:	Optimal dilutions for each application to be determined by the researcher.
POSITIVE CONTROL:	1) Cat. No. 1310 - Human Bladder Tissue Lysate
PREDICTED MOLECULAR WEIGHT:	39 kDa
SPECIFICITY:	At least two isoforms of Cyclin O are known to exist; this antibody will recognize both isoforms.
IMMUNOGEN:	Cyclin O antibody was raised against a 13 amino acid synthetic peptide from near the center of human Cyclin O
	The immunogen is located within amino acids 90 - 140 of Cyclin O.
HOST SPECIES:	Rabbit
Properties	
PURIFICATION:	Cyclin O Antibody is affinity chromatography purified via peptide column.
PHYSICAL STATE:	Liquid
BUFFER:	Cyclin O Antibody is supplied in PBS containing 0.02% sodium azide.
CONCENTRATION:	1 mg/mL
STORAGE CONDITIONS:	Cyclin O antibody can be stored at 4°C for three months and -20°C, 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.
CLONALITY:	Polyclonal
ISOTYPE:	lgG
ISUTTPE:	

ALTERNATE NAMES:	Cyclin O Antibody: CCNU, UDG2, Cyclin-O
ACCESSION NO.:	NP_066970
PROTEIN GI NO.:	153791755
OFFICIAL SYMBOL:	CCNO
GENE ID:	10309
Background	
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.
REFERENCES:	1) 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.
	2) Muller SJ and Caradonna S. Isolation and characterization of a human cDNA encoding uracil-DNA glycosylase. Biochim. Biophys. Acta 1991; 1088:197-207.
	3) 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.

FOR RESEARCH USE ONLY

December 12, 2016