

## Cyclin O Antibody

Catalog No: #24429

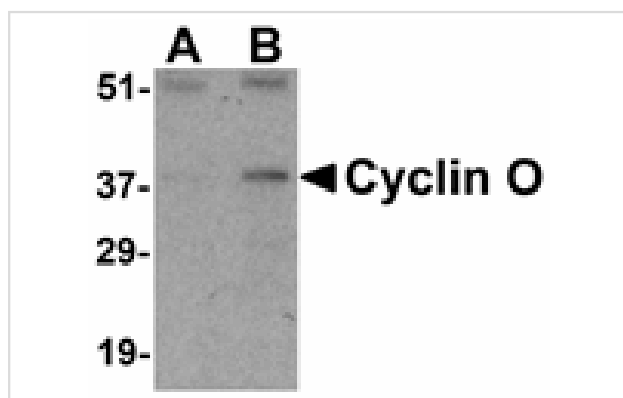
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## Description

Product Name	Cyclin O Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Affinity chromatography purified via peptide column
Applications	ELISA WB
Species Reactivity	Hu Ms Rt
Immunogen Type	Peptide
Immunogen Description	Raised against a 14 amino acid peptide from near the amino terminus of human UNG2.
Target Name	Cyclin O
Other Names	Uracil-DNA glycosylase 2, UDG2
Accession No.	Swiss-Prot:P22674Gene ID:10309
Uniprot	P22674
GeneID	10309;
Concentration	1mg/ml
Formulation	Supplied in PBS containing 0.02% sodium azide.
Storage	Can be stored at -20°C, stable for 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.

## Images



Western blot analysis of UNG2 in mouse bladder tissue lysate with UNG2 antibody at (A) 0.5, (B) 1 and (C) 2 ug/mL.

## Background

The human uracil-DNA glycosylase (UNG) gene encodes both mitochondrial (UNG1) and nuclear (UNG2) forms through differentially regulated promoters and alternative splicing. UNG2 is the major enzyme in the base excision repair pathway that removes uracil residues from DNA that arise through either misincorporation during replication or cytosine deamination. UNG2 can also be bound by the HIV-1 integrase and incorporated into the virion particle, suggesting that it is required to remove uracils from the viral genome. As the intrinsic antiviral protein APOBEC3G generates numerous uracils in the HIV genome during its replication, it may be that the UNG2 contributes to the APOBEC3G-mediated loss of infectivity by generating abasic sites in the viral genome. This UNG2 antibody will not cross-react with UNG1.

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Note: This product is for in vitro research use only