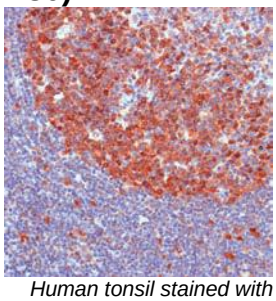
Rabbit Anti-Human Cdk2 Monoclonal Antibody (Clone SP80)



Human tonsil stained with anti-Cdk2 antibody

Western Blot analysis of HeLa cell lysate with Cdk2 antibody

CATALOG #:

M3800 0.1 ml rabbit monoclonal antibody purified by protein A/G in PBS/1% BSA buffer pH 7.6 with less than 0.1% sodium azide.

M3804 1 ml rabbit monoclonal antibody purified by protein A/G in PBS/1% BSA buffer pH 7.6 with less than 0.1% sodium azide.

M3801 7 ml pre-diluted rabbit monoclonal antibody purified by protein A/G in TBS/1% BSA buffer pH 7.6 with less than 0.1% sodium azide. *(For IHC only).*

INTENDED USE: For Research Use Only. Not for use in diagnostic procedures.

CLONE: SP80

IMMUNOGEN: Synthetic peptide corresponding to C-terminus of human Cdk2 protein

IG ISOTYPE: Rabbit IgG

EPITOPE: C-terminus

MOLECULAR WEIGHT 33kDa

SPECIES REACTIVITY: Human (tested). Others not tested.

DESCRIPTION: Cdk2 is a member of the Ser/Thr protein kinase family. It is highly similar to the gene products of S. cerevisiae cdc28, and S. pombe cdc2. It is a catalytic subunit of the cyclin-dependent protein kinase complex, whose activity is restricted to the G1-S phase, and is essential for cell cycle G1/S phase transition. This protein associates with and is regulated by the regulatory subunits of the complex including cyclin A or E, CDK inhibitor p21Cip1 (CDKN1A) and p27Kip1 (CDKN1B). Its activity is also regulated by protein phosphorylation. Two alternatively spliced variants and multiple transcription initiation sites of this gene have been reported.

APPLICATIONS: Immunohistochemistry (IHC) and Western Blotting

IHC PROCEDURE:
Specimen Preparation: Formalin-fixed, paraffin-embedded tissues are suitable for use with this primary antibody.
Deparaffinization: Deparaffinize slides using xylene or xylene alternative and graded alcohols.
Antibody Dilution: If using the concentrate format of this product, dilute the antibody 1:100. The dilutions are estimates; actual results may differ because of variability in methods and protocols.
Antigen Retrieval: Boil tissue section in 1mM EDTA, pH 8.0 for 10 min followed by cooling at RT for 20 min.
Primary Antibody Incubation: Incubate for 30 minutes at RT.
Slide Washing: Slides must be washed in between steps. Rinse slides with PBS/0.05% Tween.
Visualization: Detect the antibody as instructed by the instructions provided with the visualization system.

WESTERN BLOTTING: Recommended starting protocol: Dilute the antibody 1:100. Incubate for 1 hour at room temperature.
The dilution is an estimate; actual results may differ because of variability in methods and protocols. Optimal dilution and procedure should be determined by the end user.

POSITIVE CONTROL Tonsil

CELLULAR LOCALIZATION: Cytoplasm and nucleus

STORAGE & STABILITY Store at 2-8°C. Do not freeze. The user must validate any other storage conditions. When properly stored, the reagent is stable to the date indicated on the label. Do not use the reagent beyond the expiration date.
There are no definitive signs to indicate instability of this product; therefore, positive and negative controls should be tested simultaneously with unknown specimens.

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WARNINGS & PRECAUTIONS:

1. Avoid contact of reagents with eyes and mucous membranes. If reagents come into contact with sensitive areas, wash with copious amounts of water.
2. This product is harmful if swallowed.
3. Consult local or state authorities with regard to recommended method of disposal.
4. Avoid microbial contamination of reagents.

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