

Anti-human PPM1D (WIP-1) monoclonal antibody
Mouse monoclonal to human PPM1D

Catalog Number: WP-401

Clone: AP-40

Concentration: 1 mg/ml in PBS, pH 7.4

Amount: 100 µl

Storage: +4°C up to 6 months. If freezing is preferred, aliquot into smaller fractions for storage, do not refreeze.

Isotype: IgG1

Background:

The protein is a member of the PP2C family of Ser/Thr protein phosphatases. The expression of this protein is induced in a p53-dependent manner in response to various environmental stresses and negatively regulates the activity of p38 MAP kinase, MAPK/p38, through which it reduces the phosphorylation of p53, and in turn suppresses p53-mediated transcription and apoptosis. The amplification of this gene has been detected in both breast cancer cell line and primary breast tumors, which suggests a role of this gene in cancer development.

Immunogen

Synthetic peptide, containing amino acids 38 – 63 of human sequence (**KPSRRSLSQPLPPRPSAALPGGEVS**). The sequence is human and primate specific.

Species Reactivity

Reacts with **Human WIP-1** and also reacts with primate WIP1(100% identity with immunogen). No reaction with mouse or other species.

Uses and Dilutions

Western Blot: Use at a concentration of 0.5 - 1 µg/ml (1/1,000 - 1/2,000 dilution). Detects a band of approximately 70-80 kDa. It also recognizes the spliced forms of WIP-1 if they are expressed in the biological material (see Reference below).

Yoshiro Chuman, Wataru Kurihashi, Yohei Mizukami, Takehiro Nashimoto, Hiroaki Yagi and Kazuyasu Sakaguchi. **PPM1D430, a Novel Alternative Splicing Variant of the Human PPM1D, can Dephosphorylate p53 and Exhibits Specific Tissue Expression.** *Journal of Biochemistry* 2009 145(1):1-12

For other spliced variants see:

<http://www.ncbi.nlm.nih.gov/IEB/Research/Acembly/av.cgi?exdb=AceView&db=35g&term=wip1&submit=Go>.

Immunohistochemistry: Use at a concentration of 0.5 - 2 µg/ml (1/500 - 1/2,000 dilution).

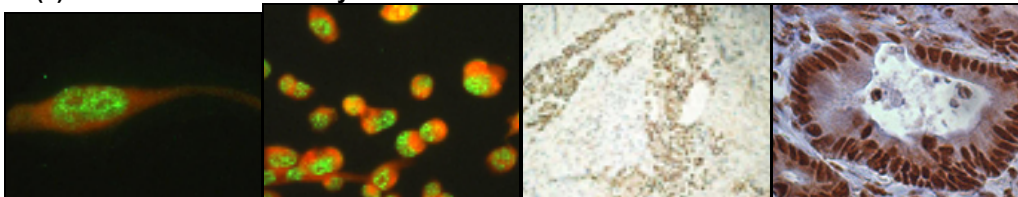
Immunofluorescence: Use at a concentration of 0.5 - 1 µg/ml (1/1,000 - 1/2,000 dilution).

Optimal dilutions/concentrations should be determined by the end user.

Positive Control:

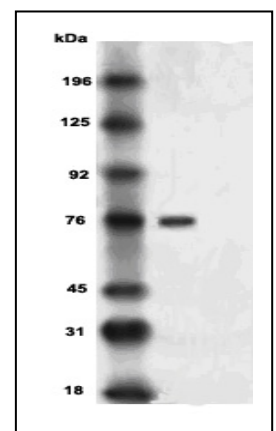
PC-3 prostate carcinoma cell line, MCF-7 breast carcinoma cell line.

Photo(s) for anti-PPM1D antibody



Immunofluorescence staining of methanol fixed PC-3 cells (human prostate carcinoma cell line) using anti-PPM1D antibody (1/1,000 dilution) and anti-mouse IgG-FITC

Immunohistochemical analysis of paraffin-embedded human breast carcinoma, anti-PPM1D antibody (1/500 dilution) and anti-mouse IgG-HRP.



Western blot analysis of extracts from PC-3 cell, using anti-PPM1D antibody (1/1,000 dilution) and anti-mouse IgG-HRP.

Limitations:

This product is for research use only and is not approved for use in humans or in clinical diagnosis