Anti-PPM1D antibody

Cat. No.	ml221399
Package	25 μl/100 μl/200 μl
Storage	-20°C, pH7.4 PBS, 0.05% NaN3, 40% Glycerol

Product overview

Description	Anti-PPM1D rabbit polyclonal antibody
Applications	ELISA, WB, IHC
Immunogen	Fusion protein of human PPM1D
Reactivity	Human, Mouse
Content	1.3 mg/ml
Host species	Rabbit
Ig class	Immunogen-specific rabbit IgG
Purification	Antigen affinity purification

Target information

Symbol	PPM1D
Full name	protein phosphatase, Mg2+/Mn2+ dependent 1D

Synonyms	WIP1; PP2C-DELTA
Swissprot	O15297

Target Background

The protein encoded by this gene is a member of the PP2C family of Ser/Thr protein phosphatases. PP2C family members are known to be negative regulators of cell stress response pathways. The expression of this gene is induced in a p53-dependent manner in response to various environmental stresses. While being induced by tumor suppressor protein TP53/p53, this phosphatase 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. This phosphatase thus mediates a feedback regulation of p38-p53 signaling that contributes to growth inhibition and the suppression of stress induced apoptosis. This gene is located in a chromosomal region known to be amplified in breast cancer. 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.

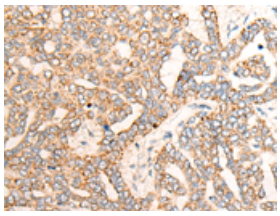
Applications

Immunohistochemistry

Predicted cell location: Cytoplasm or Nucleus

Positive control: Human liver cancer

Recommended dilution: 40-200

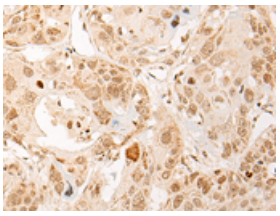


The image is immunohistochemistry of paraffin-embedded Human liver cancer tissue using ml221399(PPM1D Antibody) at dilution 1/50. (Original magnification: ×200)

Predicted cell location: Cytoplasm or Nucleus

Positive control: Human esophagus cancer

Recommended dilution: 40-200



The image is immunohistochemistry of paraffin-embedded Human esophagus cancer tissue using ml221399(PPM1D Antibody) at dilution 1/50. (Original magnification: ×200)

Western blotting

Predicted band size:67 kDa

Positive control:Human placenta tissue lysate

Recommended dilution: 200-1000

Gel: 8%SDS-PAGE

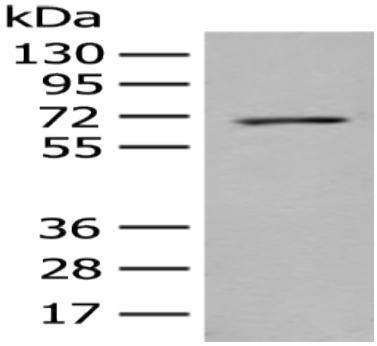
Lysate: 40 μg

Lane: Human placenta tissue lysate

Primary antibody: ml221399(PPM1D Antibody) at dilution 1/200

Secondary antibody: Goat anti rabbit IgG at 1/8000 dilution

Exposure time: 30 seconds



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订购热线: 4008-898-798

ELISA

Recommended dilution: 2000-5000

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