

## **Anti-PP2C Isoform delta Antibody, clone 2F7.1 clone 2F7.1, from mouse**

Art. ID                      SAF-MABS1189  
Unit                              EA

### Description

Protein phosphatase 1D (EC 3.1.3.16, UniProt O15297, also known as Wild-type p53-induced protein phosphatase 1, PP2C-delta, Protein phosphatase 2C isoform delta, Protein phosphatase magnesium-dependent 1 delta) is encoded by the PPM1D (also known as WIP1) gene (Gene ID 8493) in human. Wild-type p53-induced phosphatase 1 (WIP1) or PP2C-delta is a serine/threonine phosphatase. Unlike PP2A or PP1 enzymes, WIP1 functions as a monomer whose catalytic activity is dependent on Mg<sup>2+</sup> or Mn<sup>2+</sup> and is insensitive to inhibition by okadaic acid or microcystin. Casein kinase 2 (CK2) and PP2C-delta catalyze the phosphorylation and dephosphorylation, respectively, of LSD1 on Ser131 and Ser137 residues. S131/S137 phosphorylation promotes LSD1 interaction with RNF168 and RNF168-dependent 53BP1 ubiquitination and subsequent recruitment to DNA damage sites. Other known PP2C-delta targets include ATM (S367, S1981), -H2AX, CHK1 (S345) and CHK2 (T68).