

WIP1 recombinant protein

WIP1, Active

CATALOG # AAA73786	HOST Sf9 insect cells	APPLICATIONS Western Blot
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PRODUCT SYNONYMS

WIP1; Active; PPM1D; JDVS; IDDGIP; PP2C-DELTA; WIP1 recombinant protein

PRODUCT SPECIFICATIONS

Host	Sf9 insect cells
Form/Format	Recombinant protein stored in 20mM MOPS, pH7.5, 300mM NaCl, 10mM glutathione, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
Applicable Applications for WIP1 recombinant protein	WB (Western Blot), Phosphatase Assay
Tag	GST
Species	Human
Dry Ice Note	The product may be shipped with dry ice, and an additional fee may be added to your shipping cost.
Preparation and Storage	Store product at -70 degree C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.

IMAGES



SDS-PAGE

Purity: Sample Purity Data. For specific information on a given lot, see related technical data sheet.



Activity

Specific Activity: Sample Activity Plot. For specific information on a given lot, see related technical data sheet.

ADDITIONAL INFORMATION

Related Product Information for WIP1 recombinant protein	Recombinant full-length human WIP1 was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag. The gene accession number is BC016480. Wild-type p53-induced phosphatase 1 (WIP1) is a member of the PP2C family of Ser/Thr protein, and is highly expressed in testis and ovary (1). The expression of WIP1 is induced in responses to the environmental stresses (2). WIP1 dephosphorylates CHK2 at Thr-68 in as a negative regulator in the response of DNA damage (2). WIP1 suppresses the DNA double strand break repair by dephosphorylating the phosphorylated Ser-139 in a histone variant gamma-H2AX (3).
Product Categories/Family for WIP1 recombinant protein	Phosphatases ; Cancer ; Cell Cycle ; Cellular Stress ; ERK/MAPK Pathway ; Inflammation ; Neurobiology ; NfκB Pathway ; p38 Pathway ; Ser/Thr Kinases

References	1. Fiscella M. et. al: Wip1, a novel human protein phosphatase that is induced in response to ionizing radiation in a p53-dependent manner. PNAS. 1997 Jun 10; 94(12):6048-53. 2. Yoda A. et. al: Intrinsic kinase activity and SQ/TQ domain of Chk2 kinase as well as N-terminal domain of Wip1 phosphatase are required for regulation of Chk2 by Wip1. J Biol Chem. 2006 Aug 25; 281(34):24847-62. 3. Moon S. H. et. al: Wild-type p53-induced phosphatase 1 dephosphorylates histone variant gamma-H2AX and suppresses DNA double strand break repair. J Biol Chem. 2010 Apr 23; 285(17):12935-47.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	16741288
NCBI GeneID	8493
Molecular Weight	47,211 Da
NCBI Official Full Name	Homo sapiens protein phosphatase 1D magnesium-dependent, delta isoform, mRNA
NCBI Official Synonym Full Names	protein phosphatase, Mg2+/Mn2+ dependent 1D
NCBI Official Symbol	PPM1D
NCBI Official Synonym Symbols	WIP1; PP2C-DELTA
NCBI Protein Information	protein phosphatase 1D

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/wip1-recombinant-protein-sf9-insect-cells-wb-western-blot-phosphatase-assay/73786>