Recombinant Human PML

Cat. No. PML-30738TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment corresponding to amino acids 411-510 of Human PML Protein with proprietary tag; Predicted MWt 36.63 kDa.
Species	Human
Source	Wheat Germ
ProteinLength	100 amino acids
Description	The protein encoded by this gene is a member of the tripartite motif (TRIM) family. The TRIM motif includes three zinc-binding domains, a RING, a B-box type 1 and a B-box type 2, and a coiled-coil region. This phosphoprotein localizes to nuclear bodies where it functions as a transcription factor and tumor suppressor. Its expression is cell-cycle related and it regulates the p53 response to oncogenic signals. The gene is often involved in the translocation with the retinoic acid receptor alpha gene associated with acute promyelocytic leukemia (APL). Extensive alternative splicing of this gene results in several variations of the proteins central and C-terminal regions; all variants encode the same N-terminus. Alternatively spliced transcript variants encoding different isoforms have been identified.
Molecular Weight	36.630kDa inclusive of tags
Form	Liquid
Purity	Proprietary Purification

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Storage buffer	pH: 8.00Constituents:0.31% Glutathione, 0.79% Tris HCl
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	RDPIDVDLDVSNTTTAQKRKCSQTQCPRKVIKMESEEGKEARLARSSPEQPRPSTS KAVSPPHLDGPPSPRSPVIGSEVFLPNSNHVASGAGEAEERVVV
Sequence Similarities	Contains 2 B box-type zinc fingers.Contains 1 RING-type zinc finger.

GENE INFORMATION

Gene Name	PML promyelocytic leukemia [Homo sapiens]
Official Symbol	PML
Synonyms	PML; promyelocytic leukemia; protein PML; MYL; RNF71; TRIM19;
Gene ID	5371
mRNA Refseq	NM_002675
Protein Refseq	NP_002666
MIM	102578
Uniprot ID	P29590
Chromosome Location	15q24.1

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Pathway	Acute myeloid leukemia, organism-specific biosystem; Acute myeloid leukemia, conserved biosystem; Cytokine Signaling in Immune system, organism-specific biosystem; Direct p53 effectors, organism-specific biosystem; Endocytosis, organism-specific biosystem;
Function	DNA binding; SMAD binding; SUMO binding; cobalt ion binding; metal ion binding;

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