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# Product datasheet for TP510910

## Pml (NM_008884) Mouse Recombinant Protein

### Product data:

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| **Product Type:** | Recombinant Proteins |
| **Description:** | Purified recombinant protein of Mouse promyelocytic leukemia (Pml), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug |
| **Species:** | Mouse |
| **Expression Host:** | HEK293T |
| **Expression cDNA Clone or AA Sequence:** | >MR210910 representing NM_008884<br>Red=Cloning site Green=Tags(s)<br><br>METEPVSVQKVPAPPGSPCRQQDSALTPTPTMPPPEEPSEDYEHSQSPAEQAIQEEFQFLRCPSCQAQAK<br>CPKLLPCLHTLCSGCLEAPGLQCPICKAPGQADANGEALDNVFFESLQRRLAVFRQIVDAQAACTRCKGL<br>ADFWCFECEQLICSKCFEAHQWYLKHEARPLADLRDNSVSSFLDSTRKSNIFCSNTNHRNPALTDIYCRG<br>CAKPLCCTCALLDRNHSHLHCDIGEEIQQWHEELGTMTQTLEEQGRTFDSAHAQMCSAIGQLDHARADI<br>E<br>KQIRARVRQVVDYVQAQERELLEAVNDRYQRDYQEIAGQLSCLEAVLQRIRTSGALVKRMKLYASDQEVL<br>DMHSFLRKALCSLRQEEPQNQKVQLLTRGFEEFKLCLQDFISCITQRINAAVASPEAASNQPEAASTHPV<br>TTSTPEDLEQEASQTVGSMKRKCSHEDCSRKIIKMESTEENEDRLATSSPEQSWPSTFKATSPPHLDGTS<br>NPESTVPEKKILLPNNNHVTSDTGETEERVVVISSSEDSDTENLSSHELDDSSSESSSLQLEGPNSLKAL<br>DESLAEPHLEDRTLVFFDLKIDNETQKISQLAAVNRESKFRVLIQPEAFSVYSKAVSLEAGLRHFLSFLT<br>TMHRPILACSRLWGPGLPIFFQTLSDINKLWEFQDTISGFLAVLPLIRERIPGASSFKLGNLAKTYLARN<br>MSERSALASVLAMRDLCCLLEISPGLPLAQHIYSFSSLQCFASLQPLIQASVLPQSEARLLALHNVSFVE<br>LLNAYRTNRQEGLKKYVHYLSLQTTPLSSSASTQVAQFLQALSTHMEGLLEGHAPAGAEGKAESKGCLA<br><br>SGPTRTRPLEQKLISEEDLAANDILDYKDDDDKV |
| **Tag:** | C-MYC/DDK |
| **Predicted MW:** | 93.7 kDa |
| **Concentration:** | >0.05 µg/µL as determined by microplate BCA method |
| **Purity:** | > 80% as determined by SDS-PAGE and Coomassie blue staining |
| **Buffer:** | 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol |
| **Note:** | For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process. |

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| **Storage:** | Store at -80°C after receiving vials. |
| **Stability:** | Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles. |
| **RefSeq:** | NP_032910 |
| **Locus ID:** | 18854 |
| **UniProt ID:** | Q60953 |
| **RefSeq Size:** | 5240 |
| **Cytogenetics:** | 9 31.63 cM |
| **RefSeq ORF:** | 2517 |
| **Synonyms:** | 1200009E24Rik; AI661194; Trim19 |
| **Summary:** | Functions via its association with PML-nuclear bodies (PML-NBs) in a wide range of important cellular processes, including tumor suppression, transcriptional regulation, apoptosis, senescence, DNA damage response, and viral defense mechanisms. Acts as the scaffold of PML-NBs allowing other proteins to shuttle in and out, a process which is regulated by SUMO-mediated modifications and interactions. Positively regulates p53/TP53 by acting at different levels (by promoting its acetylation and phosphorylation and by inhibiting its MDM2-dependent degradation). Regulates phosphorylation of ITPR3 and plays a role in the regulation of calcium homeostasis at the endoplasmic reticulum. Regulates RB1 phosphorylation and activity. Acts as both a negative regulator of PPARGC1A acetylation and a potent activator of PPAR signaling and fatty acid oxidation. Regulates translation of HIF1A by sequestering MTOR, and thereby plays a role in neoangiogenesis and tumor vascularization. Regulates PER2 nuclear localization and circadian function. Cytoplasmic PML is involved in the regulation of the TGF-beta signaling pathway. Required for normal development of the brain cortex during embryogenesis. Plays a role in granulopoiesis or monopoiesis of myeloid progenitor cells. May play a role regulating stem and progenitor cell fate in tissues as diverse as blood, brain and breast. Shows antiviral activity towards lymphocytic choriomeningitis virus (LCMV) and the vesicular stomatitis virus (VSV). [UniProtKB/Swiss-Prot Function] |