

Product datasheet for **AP06288PU-S**

PML Protein (PML) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IF, IHC, WB
Recommended Dilution:	Western blot: 1/500-1/1000. Immunohistochemistry on paraffin sections 1/50-1/200. Immunofluorescence: 1/50-1/200.
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Synthetic peptide, corresponding to the N-terminal of Human PML.
Specificity:	This antibody detects endogenous levels of PML protein. (region surrounding Pro39)
Formulation:	Phosphate buffered saline (PBS), pH~7.2 State: Aff - Purified State: Liquid purified Ig fraction (> 95% pure by SDS-PAGE). Preservative: 0.05% Sodium Azide
Concentration:	1.0 mg/ml
Purification:	Affinity-chromatography using epitope-specific immunogen.
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: One year from despatch.
Predicted Protein Size:	~ 98 kDa
Gene Name:	promyelocytic leukemia
Database Link:	Entrez Gene 5371 Human P29590



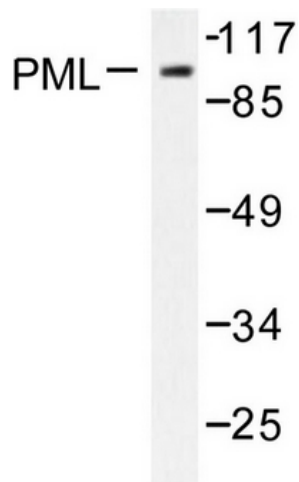
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Background:

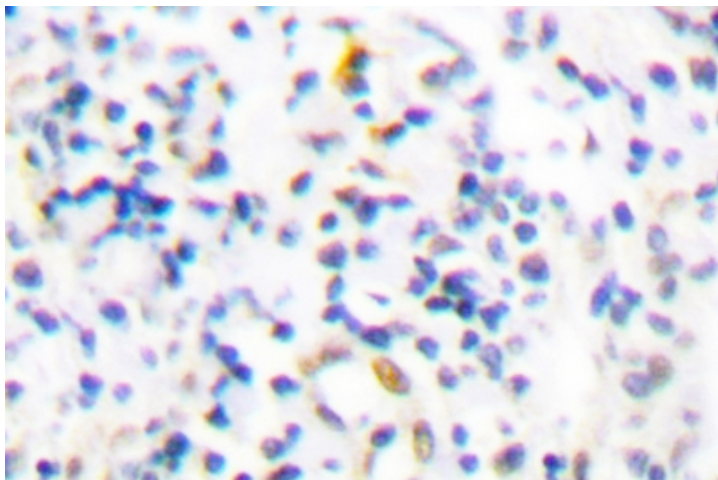
The PML protein is a zinc finger transcription factor expressed as three major transcription products due to alternative splicing. The gene encoding human PML maps to chromosome 15q22. The t(15;17) (q22;q11.2-q12) chromosomal trans-location of the retinoic acid receptor alpha (RARalpha) gene occurs in virtually all cases of acute promyelocytic leukemia and results in the expression of a PML/RARalpha chimeric protein. Myeloid precursor cells expressing the PML/ RARalpha chimera fail to differentiate and exhibit an increased growth rate consequent to diminished apoptosis. PML/RARalpha transforms myeloid precursors by recruiting the nuclear co-repressor (N-CoR)-histone deacetylase complex that is essential to retinoic acid-dependent myeloid differentiation. PML/ RARalpha also recruits DNA methyltransferases in order to induce gene hypermethylation and silencing, which ultimately facilitates leukemogenesis.

Synonyms:

RING finger protein 71, MYL, TRIM19

Product images:

Western blot (WB) analysis of PML antibody in extracts from A549 cells.



Immunohistochemistry (IHC) analyzes of PML antibody in paraffin-embedded human tonsil thyroid tissue.