

PML (E6S9L) Rabbit mAb

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| Applications: IHC-P, IF-IC | Reactivity: H | Sensitivity: Endogenous | MW (kDa): 48-200 | Source/Isotype: Rabbit IgG | UniProt ID: #P29590 | Entrez-Gene Id: 5371 |
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Product Usage Information**Application**

Immunohistochemistry (Paraffin)
Immunofluorescence (Immunocytochemistry)

Dilution

1:500 - 1:2000
1:500

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. *Do not aliquot the antibody.*

Specificity/Sensitivity

PML (E6S9L) Rabbit mAb recognizes endogenous levels of total PML protein.

Source / Purification

Monoclonal antibody is produced by immunizing animals with recombinant protein specific to the amino terminus of human PML protein.

Background

Promyelocytic leukemia protein (PML) functions via its association with PML bodies in the nucleus (1). PML bodies are dynamic protein aggregates that are interspersed between chromatin in the nuclei of most mammalian cells. The PML protein acts as a scaffold in PML bodies to recruit other proteins, a process regulated by post-translational modifications, such as sumoylation. PML bodies function to regulate a large number of cellular processes, such as tumor suppression, transcriptional regulation, apoptosis, senescence, DNA damage response, and viral defense (1). The chromosomal translocation t(15;17)(q21;q21) involving the fusion of PML and RARalpha is found in acute promyelocytic leukemia (APL), while a second translocation t(9;15)(p13;q24) involving the fusion of PML and PAX5 was found in acute lymphoblastic leukemia (ALL) (2-6). In addition, PML is frequently inactivated or downregulated in cancer.

Background References

1. Lallemand-Breitenbach, V. and de Thé, H. (2018) *Curr Opin Cell Biol* 52, 154-61.
2. de Thé, H. et al. (1991) *Cell* 66, 675-84.
3. Goddard, A.D. et al. (1991) *Science* 254, 1371-4.
4. Nebral, K. et al. (2007) *Br J Haematol* 139, 269-74.
5. Qiu, J.J. et al. (2011) *Oncogene* 30, 967-77.
6. Kurahashi, S. et al. (2011) *Oncogene* 30, 1822-30.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Applications Key

IHC-P: Immunohistochemistry (Paraffin) **IF-IC:** Immunofluorescence (Immunocytochemistry)

Cross-Reactivity Key

H: Human

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