

Rabbit Anti-Transcription Factor PU.1/PU.1/Spi1 [MD300R]: RM0190, RM0190RTU7

Intended Use: For Research Use Only

Description: PU.1 is a member of the Ets family of transcription factors and is required for the development of multiple hematopoietic lineages. It plays a pivotal role in normal myeloid differentiation, and regulates the expression of immunoglobulin and other genes that are important for B-cell development. PU.1 stains B lymphocytes in germinal center and mantle B cells, but not plasma cells. It labels many types of B-cell lymphomas including mantle cell lymphoma, but is not expressed in classical Hodgkin lymphoma (cHL). The lack of transcription factor PU.1 protein expression in cHL, a lymphoproliferative disease of predominantly B-cell origin, likely contributes to the lack of immunoglobulin expression and incomplete B-cell phenotype characteristic of the Reed-Sternberg cells in cHL.

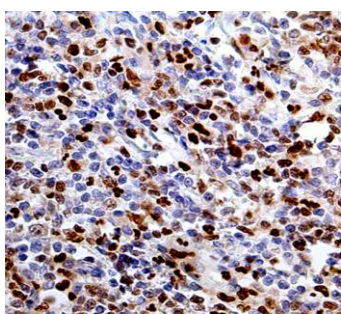
Specifications

Clone: MD300R
 Source: Rabbit
 Isotype: IgG
 Reactivity: Human
 Immunogen: Synthetic peptide of human PU.1
 Localization: Nucleus
 Formulation: Antibody in PBS pH7.4, containing BSA and $\leq 0.09\%$ sodium azide (NaN₃)
 Storage: Store at 2°- 8°C
 Applications: IHC
 Package:

Description	Catalog No.	Size
Transcription Factor PU.1/PU.1/Spi1 Concentrated	RM0190	1 ml
Transcription Factor PU.1/PU.1/Spi1 Prediluted	RM0190RTU7	7 ml

IHC Procedure

Positive Control Tissue: Tonsil, lymphoma, Daudi cell lysate, THP-1 cell lysate
 Concentrated Dilution: 50-200
 Pretreatment: Tris EDTA pH9.0, 15 minutes Pressure Cooker or 30-60 minutes water bath at 95°-99°C
 Incubation Time and Temp: 30-60 minutes @ RT
 Detection: Refer to the detection system manual
 * Result should be confirmed by an established diagnostic procedure.



FFPE human tonsil stained with anti-PU.1 using DAB

References:

1. STAT3/5-Dependent IL9 Overexpression Contributes to Neoplastic Cell Survival in Mycosis Fungoides. Vieyra-Garcia PA, et al. Clin Cancer Res 22:3328-39, 2016.
2. Cooperative Activity of GABP with PU.1 or C/EBPε Regulates Lamin B Receptor Gene Expression, Implicating Their Roles in Granulocyte Nuclear Maturation. Malu K, et al. J Immunol. Aug 1;197(3):910-22, 2016.

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