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DATA SHEET

Mouse Anti-Transcription Factor PU.1/PU.1/Spi1 [PU1/2146]: MC0421, MC0421RTU7

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:	PU1/2146
Source:	Mouse
Isotype:	IgG2b/k
Reactivity:	Human
Immunogen:	Recombinant human PU.1 protein fragment aa 16-170
Localization:	Nucleus
Formulation:	Antibody in PBS pH7.4, containing BSA and ≤ 0.09% sodium azide (NaN3)
Storage:	Store at 2°- 8°C
Applications:	IHC, Flow Cyt., IF, WB

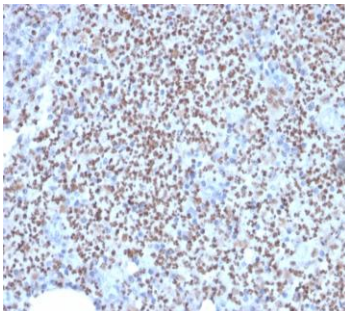
Package:

Description	Catalog No.	Size
Transcription Factor PU.1/PU.1/Spi1 Concentrated	MC0421	1 ml
Transcription Factor PU.1/PU.1/Spi1 Prediluted	MC0421RTU7	7 ml

IHC Procedure

Positive Control Tissue:	Tonsil, lymphoma
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 lymph node 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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