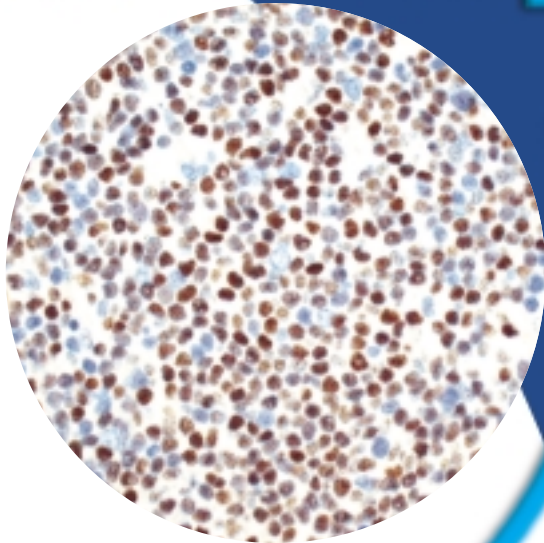
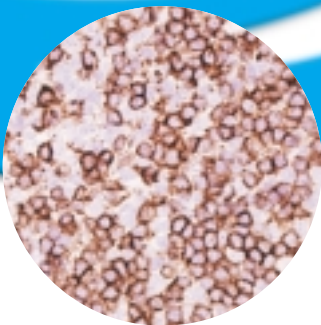


RabMAbs for

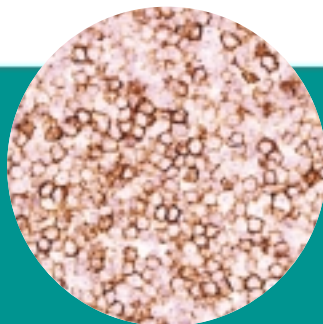
Haematopathology



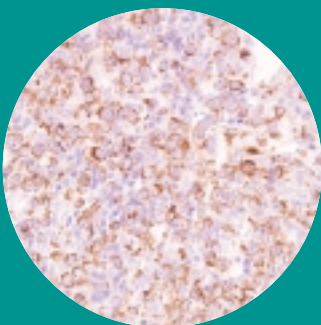
Cyclin D1, SP4
The best reagent
for MCL Diagnosis



Formalin-fixed, paraffin
embedded human
tonsil, stained with
RabMAb CD5, SP19



Formalin-fixed, paraffin
embedded human
tonsil, stained with
RabMAb CD23, SP23



Formalin-fixed, paraffin
embedded human
ALCL, stained with
RabMAb ALK-p80, SP8

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antibodies is available for
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Rabbit Monoclonal Antibodies

ALK - p80, SP8

code no. RM-9108

CD3, SP7

code no. RM-9107

CD5, SP19

code no. RM-9119

CD8, SP16

code no. RM-9116

CD23, SP23

code no. RM-9123

CD79a, SP18

code no. RM-9118

Cyclin D1, SP4

code no. RM-9104

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Monoclonal
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- Cost effective

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MARKERS FOR HAEMATOPATHOLOGY

Cyclin D1, Clone SP4

(code no. RM-9104)

Cyclin D1 is an important component in the regulation of the normal cell cycle. The occurrence of the translocation t(11;14) leads to up regulation of Cyclin D1, playing a key role in the pathogenesis of Mantle Cell Lymphoma. Cyclin D1 is also expressed in a subset of multiple myeloma. The over-expression of Cyclin D1 is diagnostic for MCL.

REF. Cheuk W., et al " Consistent immunostaining for Cyclin D1 can be achieved on a routine basis using a newly available rabbit monoclonal antibody". Am J Surg Pathol 2004 June 28(6):801-07

CD5, Clone SP19

(code no. RM-9119)

The CD5 antigen is a 67 Kd surface glycoprotein expressed on the vast majority of mature T cells. It labels the majority of T-cells in peripheral lymphoid tissue, most T-cell lymphomas. It is also expressed on a minor subset of B cells.

CD23, Clone SP23

(code no. RM-9123)

CD23 is a 45-60 kD integral membrane glycoprotein. It is a low affinity receptor for IgE. CD23 is highly expressed in activated B-cells within germinal centers but mantle zone B-cells are negative. Most low grade B-cell lymphomas express CD23 as do Reed-Sternberg cells in Hodgkin's disease and EBV-transformed B lymphoblasts.

	CD5 Clone SP19	CD23 Clone SP23	Cyclin D1 Clone SP4	CD10 MS-728	bcl-6 MS-1114	Ki-67 Clone SP6
Follicular Lymphoma (FL)	-	-	-	+	+	low
Marginal-zone B-cell Lymphoma	-	-	-	-	-	low
Mantle Cell Lymphoma (MCL)	+	-	+	-	-	intermediate
Chronic Lymphocytic Leukemia (CLL) Small Lymphocytic Lymphoma (SLL)	+	+	-	-	-	low

The differential diagnosis between MCL and other low grade B-cell NHL is crucial because of the differences both in treatment options and prognosis. Immunohistochemistry plays a key role and the evaluation of CD5, CD23 and Cyclin D1 has proved particularly useful. Mantle Cell Lymphoma always exhibits a CD5+ / CyclinD1+ / CD23- phenotype, whereas B-CLL exhibits a CD5+ / Cyclin D1- / CD23+ phenotype. Importantly, some MCL may have a CD5- / Cyclin D1+ / CD23- IHC profile.

ALK-p80, Clone SP8

(code no. RM-9108)

NPM-ALK (p80) is a fusion protein that is easily detected by Immunohistochemistry and is an important parameter in the recognition of Anaplastic Large Cell Lymphoma (ALCL) especially for its excellent prognostic value. It is expressed in a heterogeneous group of tumors, that can exhibit T-cell or null-cell lineage. Using a combination of clinical, phenotypic and genomic features, several distinct clinicopathologic entities have been identified:

- ALCL with translocation t(2;5) (p23;q35) → ALK positive by IHC (better prognosis)
- ALCL with no translocation t(2;5) (p23;q35) → ALK negative by IHC (poor prognosis)
- Primary cutaneous ALCL which have excellent prognosis (gene translocations and ALK expression are extremely rare)

ALCL is a primary systemic form that occurs primarily in children and young adults. The IHC phenotypic profile shows typical CD30 + and EMA expression. Approximately 50-80% of cases are reported to carry a t(2;5) translocation involving the anaplastic lymphoma kinase gene (ALK) and the nucleophosmin gene (NPM) which results in the expression of novel fusion protein, NPM-ALK (p80).

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