

Mouse Anti-Hairy Cell Leukemia/HCL [DBA.44]: MC0135, MC0135RTU7

Intended Use: For Research Use Only

Description: Hairy cell leukemia (HCL) is a rare type of chronic lymphoid leukemia. The disease is characterized by abnormal white blood cells bearing hair-like projections from the cytoplasm. These cancerous cells are larger than normal and positive for CD19, CD20, CD22, CD11c, CD25, CD103 and FMC7. HCL commonly causes infection, anemia and/or easy bleeding in patients. Some of the leukemic cells may gather in the spleen and cause it to swell, leading to massive splenomegaly. Patients with a high tumor burden may also have significantly reduced levels of cholesterol. There are two variants of hairy cell leukemia: hairy cell leukemia-variant, which is usually diagnosed in older men; and a Japanese variant. HCL markers are important research tools as they allow for the functional and behavioral analysis of this type of leukemia. DBA.44, a B subset antibody, reacts with very few normal cells. 50-97% of HCL cases are positive; about 35% of low grade B-cell lymphomas are positive; and about 30-80% of splenic lymphomas are positive. The antibody maybe also positive in some marginal cell lymphomas (MZL) and large cell lymphomas. Combining with TRAcP (tartrate-resistant acid phosphatase) is a good way to detect HCL.

Specifications

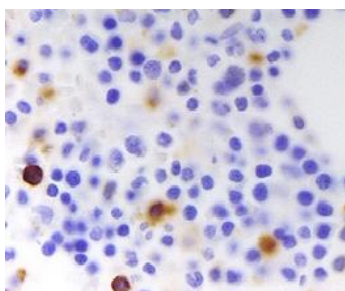
Clone: DBA.44
 Source: Mouse
 Isotype: IgM/k
 Reactivity: Human
 Localization: Cytoplasm, membrane
 Formulation: Antibody in PBS pH7.4, containing BSA and $\leq 0.09\%$ sodium azide (NaN₃)
 Storage: Store at 2°- 8°C
 Applications: IHC
 Package:

Description	Catalog No.	Size
Hairy Cell Leukemia/HCL Concentrated	MC0135	1 ml
Hairy Cell Leukemia/HCL Prediluted	MC0135RTU7	7 ml

IHC Procedure:

Positive Control Tissue: Hairy cell leukemia
 Concentrated Dilution: 10-30
 Pretreatment: Pepsin 5-10 min at 37°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 bone marrow with hairy cell leukemia stained with anti-HCL using DAB

References

1. Immunohistochemical demonstration of acid phosphatase isoenzyme 5 (tartrate-resistant) in paraffin sections of hairy cell leukemia and other hematologic disorders. Hoyer JD, et al. Am J Clin Pathol.108:308-15, 1997.
2. The value of the monoclonal antibody, DBA44, in the diagnosis of B-lymphoid disorders. Salomon-Nguyen F, et al. Leukaemia Research. 20:909-13, 1996.
3. Minimal residual disease may predict bone marrow relapse in patients with hairy cell leukaemia treated with 2-chlorodeoxyadenosine. Wheaton S, et al. Blood. 87:1556-60, 1996.

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