CD5 Ab-1 (Clone 4C7)
Mouse Monoclonal Antibody
Cat. #MS-393-S0, -S1, or -S (0.1ml, 0.5ml, or 1.0ml Supernatant)
Cat. #MS-393-R7 (7.0ml) (Ready-to-Use for Immunohistochemistry)
Cat. #MS-393-RQ (12.0ml) (Ready-to-Use for Immunohistochemistry)
Cat. #MS-393-PCS (5 Slides) (Positive Control for Histology)

Please note this data sheet has been changed effective May 25, 2012

Description: The CD5, a transmembrane protein, is found on 95% of thymocytes and 72% of peripheral blood lymphocytes. In lymph nodes, the main reactivity is observed in T cell areas. CD5 is expressed by many T cell leukemia, lymphomas, and activated T cells. Occasionally, CD5 antigen is also expressed on a subset of B cells. Mantle cell lymphomas (same as diffuse centrocytic lymphomas) are CD5+ while the follicle center cell lymphoma are CD5-. The expression can be seen in some carcinomas: Thymus, Breast, Thyroid and Colon.

Comments: Ab-1 is excellent for identifying the formalin-paraffin sections of mantle cell lymphomas. Note that Ab-1 is not suitable for frozen tissues.

Mol. Wt. of Antigen: 67kDa
Epitope: External domain
Clone Designation: 4C7
Ig Isotype / Light Chain: IgG1 / κ
Immunogen: Recombinant protein corresponding to the external domain of the CD5 molecule.

Applications and Suggested Dilutions:
- Immunohistochemistry (Formalin/paraffin only)
  Use Ab 1:20 – 1:40 for 30 min at RT
  [Staining of formalin-fixed tissues REQUIRES boiling tissue sections in 10mM EDTA buffer, pH 8.0, (Lab Vision Cat. #AP-9004), for 10-20 min followed by cooling at RT for 20 min.]
- Use Ab 1: 10 for 20 min at RT with UltraVision Quanto Detection Systems
  [Staining of formalin-fixed tissues REQUIRES boiling tissue sections in 1mM EDTA buffer, pH 8.0, (Cat. #AP-9004), for 10-20 min followed by cooling at RT for 20 min.]

The optimal dilution for a specific application should be determined by the investigator.

Positive Control: Tonsil
Cellular Localization: Cell membrane

Storage and Stability: Store vial at 4°C. When stored at 2-8°C, this antibody is stable for 24 months.

Supplied As:
- Tissue culture supernatant with 0.09% sodium azide, or
- Prediluted antibody which is ready-to-use for staining of formalin-fixed, paraffin-embedded tissues.

Suggested References:

Limitations and Warranty:
Our products are intended FOR RESEARCH USE ONLY and are not approved for clinical diagnosis, drug use or therapeutic procedures. No products are to be construed as a recommendation for use in violation of any patents. We make no representations, warranties or assurances as to the accuracy or completeness of information provided on our data sheets and website. Our warranty is limited to the actual price paid for the product. Lab Vision is not liable for any property damage, personal injury, time or effort or economic loss caused by our products.

Material Safety Data:
This product is not licensed or approved for administration to humans or to animals other than the experimental animals. Standard Laboratory Practices should be followed when handling this material. The chemical, physical, and toxicological properties of this material have not been thoroughly investigated. Appropriate measures should be taken to avoid skin and eye contact, inhalation, and ingestion. The material contains 0.09% sodium azide as a preservative. Although the quantity of azide is very small, appropriate care should be taken when handling this material as indicated above. The National Institute of Occupational Safety and Health has issued a bulletin citing the potential explosion hazard due to the reaction of sodium azide with copper, lead, brass, or solder in the plumbing systems. Sodium azide forms hydrazoic acid in acidic conditions and should be discarded in a large volume of running water to avoid deposits forming in metal drainage pipes.

For Research Use Only
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Additional Suggested References:
3. Ueda G; Oka K; Matsumoto T; Yatabe Y; Yamanaka K; Suyama M; Ariyama J; Futagawa S; Mori N. Primary hepatic marginal zone B-cell lymphoma with mantle cell lymphoma phenotype. Virchows Archiv, 1996 Jul, 428(4-5):311-4.
5. Zoldan MC; Inghirami G; Masuda Y; Vandekerckhove F; Raphael B; Amorosi E; Hymes K; Frizzera G. Large-cell variants of mantle cell lymphoma: cytologic characteristics and p53 anomalies may predict poor outcome. British Journal of Haematology, 1996 May, 93(2):475-86.