



Category:
Monoclonal Antibodies

Cat. #
V7104

Product Name:
CD4- B486

Description:
Monoclonal Mouse Anti-Human CD4

Immunogen:
Human leucocytes

Application:
Immunohistochemistry 1:50-1:100.(Frozen sections only)
Flow Cytometry 1:150-1:300.

Species Reactivity:
Human. Others not tested.

Recommended Positive Control:
Tonsil, Thymus, Spleen

Presentation:
20 mM tris-borate, 150 mM Sodium Chloride, dialyzed media RPMI 1640/D-MEM containing fetal bovine serum, BMC-6 carrier polysaccharides, carrier protein, and 0.05% Sodium Azide, pH 7.5.

Aliquoting Instructions:
Do not dilute the entire reconstituted solution at once. Withdraw aliquots as needed with a micropipette and keep concentrated stock at 4°C. Dilute according to the particular application being used. In general, the 0.05M borate pH 8.0 containing 0.15M sodium chloride, 0.02% sodium azide, is a good diluent to use with most antibodies.

Staining Procedure:
This antibody can be used on frozen sections only.n/a The antibody may be used at a dilution of 1:50-1:100. The optimal conditions should be determined by the individual laboratory.

Specificity:
This antibody reacts with a 55kD single chain transmembrane glycoprotein, CD4, expressed on T helper lymphocytes, dendritic cells, microglial cells, and cortical thymus cells. Characteristic of CD4 is its four extracellular immunoglobulin-like domains which help it bind to HLA class II molecules when CD4+ T cells interact with antigen-presenting cells or target cells. Another interesting aspect of the CD4 receptor is the fact that it also serves as the primary receptor for the HIV virus. This antibody was clustered at the 2nd International Leucocyte Typing Workshop.

Storage:
Store at 2~8o C for short term, freeze under -20oC for long term storage.

Size: 0.2mg
Clone: B486 (EDU-2)
Isotype: IgG2a
Host: Mouse
Form: Purified
Concentration: 0.5 mg/ml
Units On Hand: YES

References:
1. Reinherz, E.L. etal, Proc. Natl. Acad. Sci. USA 76:4061, 1979.
2. Biddison, W.E. etal, J. Immunol. 131:152, 1983.
3. Dalgleish, A.G. etal, Nature 312:763, 1986.
4. McDougal, J.S. etal, Science 231:382, 1986.

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