

Basic Information

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|---------------------------|-----------------------------------------------------------------------------------------------------------|--------|--|
| Product Name | Anti-CD19 Antibody (Clone#OTI3G7) | | |
| Gene Name | CD19 | | |
| Source | Mouse | | |
| Clonality | Monoclonal | | |
| Isotype | IgG1 | | |
| Species Reactivity | human | | |
| Tested Application | WB, IHC, ICC/IF, FCM | | |
| Contents | PBS (PH 7.3) containing 1% BSA, 50% glycerol and 0.02% sodium azide. | | |
| Immunogen | Full length human recombinant protein of human CD19(NP_001761) produced in HEK293T cell. | | |
| Concentration | 500 ug/ml | | |
| Purification | Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G) | | |
| Observed MW | 95 kDa | | |
| Dilution Ratios | Western blot (WB): | 1:4000 | |
| | Immunohistochemistry (IHC): | 1:150 | |
| | Immunocytochemistry/Immunofluorescence (ICC/IF): | 1:100 | |
| | Flow cytometry (FCM): | 1:50 | |

Storage

Stable for 12 months from date of receipt. Store at -20°C as received.

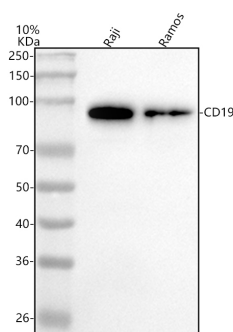
Background Information

B-lymphocyte antigen CD19, also known as CD19 (Cluster of Differentiation 19), is a protein that in humans is encoded by the CD19 gene. It is found on the surface of B-cells, a type of white blood cell. Lymphocytes proliferate and differentiate in response to various concentrations of different antigens. The ability of the B cell to respond in a specific, yet sensitive manner to the various antigens is achieved with the use of low-affinity antigen receptors. The CD19 gene encodes a cell surface molecule that assembles with the antigen receptor of B lymphocytes in order to decrease the threshold for antigen receptor-dependent stimulation.

Reference

Anti-CD19 Antibody (Clone#OTI3G7)被引用在1文献中。

Selected Validation Data

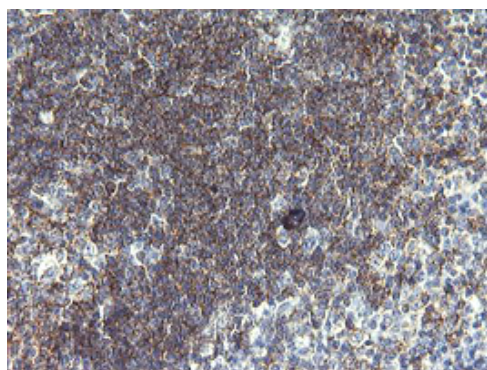


Western blot analysis of anti-CD19 antibody (M00154-4). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

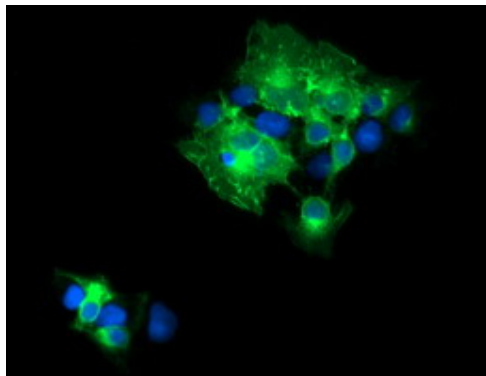
Lane 1: human Raji whole cell lysates,

Lane 2: human Ramos whole cell lysates.

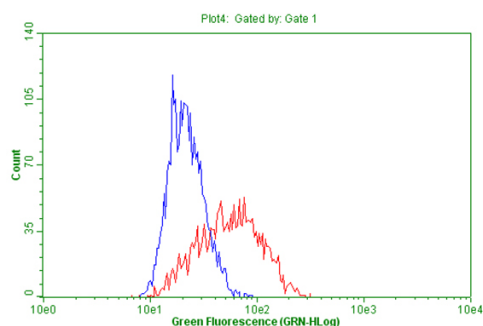
After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with mouse anti-CD19 antigen affinity purified monoclonal antibody (M00154-4) at a dilution of 1:1000 and probed with a goat anti-mouse IgG-HRP secondary antibody (Catalog # BA1050). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for CD19 at approximately 95 kDa. The expected band size for CD19 is at 66 kDa.



Immunohistochemical staining of paraffin-embedded Human tonsil within the normal limits using anti-CD19 mouse monoclonal antibody. (M00154-4; heat-induced epitope retrieval by 1mM EDTA in 10mM Tris, pH8.5, 120°C for 3min)



Anti-CD19 mouse monoclonal antibody immunofluorescent staining of COS7 cells transiently transfected by pCMV6-ENTRY CD19 .



Flow cytometric Analysis of living K562 cells, using anti-CD19 antibody, (Red), compared to a nonspecific negative control antibody, (Blue).