



## Anti- human CD19 Mouse Monoclonal Antibody

Clone: UMAB103 REF RU00045

### Intended use

Anti- human CD19 Mouse Monoclonal Antibody is intended for research use only. Not for use in diagnostic procedures. Not for human or animal consumption.

### Background

Lymphocytes proliferate and differentiate in response to various concentration 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. CD19 is a cell surface molecule which assembles with the antigen receptor of B lymphocytes in order to decrease the threshold for antigen receptor-dependent stimulation.

Alternative names: B4, CVID3

### Reagent provided

Anti- human CD19 Mouse Monoclonal Primary Antibody (Clone: UMAB103) is provided in liquid form in 20mM Sodium phosphate, 150mM Sodium chloride, 0.2% BSA, 0.09% Sodium azide, pH 7.4. The isotype of the antibody is IgG1. The total protein concentration is  $0.6 \pm 0.05$  mg/mL.

For Immunohistochemistry the primary antibody may be used at a working dilution of 1:100 – 1:200 for formalin-fixed, paraffin-embedded human tissues, and this can be dependent upon the detection system used. These are guidelines only, and the optimal dilutions should be determined by the individual laboratory.

### Immunogen

Full length recombinant protein of human CD19 (NP\_001761) was produced in HEK293T cell.

### Specificity

The specificity of the anti- human CD19 Mouse Monoclonal Primary Antibody was established on normal human tonsil and pancreas. The anti-CD19 presented no staining on formalin fixed human pancreas and positive staining on normal human tonsil using immunohistochemical (IHC) test methods.

### Precautions

1. This product contains sodium azide ( $\text{NaN}_3$ ), a chemical highly toxic in pure form. At product concentrations, though not classified as hazardous,  $\text{NaN}_3$  may react with lead and copper plumbing to form highly explosive build-ups of metal azides. Upon disposal, flush with large volumes of water to prevent metal azide build-up in plumbing.
2. Wear appropriate Personal Protective Equipment to avoid contact with eyes and skin.
3. Unused reagents should be disposed of according to local, State, and Federal regulations.
4. Suitability for specific application may vary and it is the responsibility of the end user to determine the appropriate application for use and stability.

### Storage

Store at 2-8°C. If reagents are stored under conditions other than those specified in the package insert, they must be verified by the user.

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