

## Anti-human CD4 Mouse Monoclonal Antibody

Clone: UMAB64 REF RU00010

### Intended use

Anti-human CD4 (Clone: UMAB64) Mouse Monoclonal Antibody is intended for research use only. Not for use in diagnostic procedures. Not for human or animal consumption.

### Background

CD4 is a membrane glycoprotein of T lymphocytes that interacts with major histocompatibility complex class II antigens and is also a receptor for the human immunodeficiency virus. It is expressed not only in T lymphocytes, but also in B cells, macrophages, and granulocytes. It is also expressed in specific regions of the brain. The protein functions to initiate or augment the early phase of T-cell activation, and may function as an important mediator of indirect neuronal damage in infectious and immune-mediated diseases of the central nervous system. [provided by RefSeq, Aug 2010].

### Reagent provided

Anti-human CD4 Mouse Monoclonal Antibody (Clone: UMAB64) 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 IgG2b. The protein concentration is approximately 0.6 +/- 0.05 mg/mL.

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

### Immunogen

Full length human recombinant protein of human CD4 (NP\_000607) was produced in HEK293T cell.

### Specificity

The specificity of the anti-human CD4 Mouse Monoclonal Primary Antibody was established on known human tonsil and human kidney. The anti-CD4 presented no staining on human kidney and positive staining on human tonsil tissue using immunohistochemical (IHC) test methods.

### Precautions

1. This product contains sodium azide (NaN<sub>3</sub>), a chemical highly toxic in pure form. At product concentrations, though not classified as hazardous, NaN<sub>3</sub> 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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