Anti-CD71 (Transferrin Receptor)

Purified Antibody Product Number M710020 0.1 mg

FITC Conjugate Product Number M710030 100 tests 1.0 mL

Phycoerythrin Product Number M710070 100 tests 1.0 mL

Biotin Product Number M710060 100 tests 1.0 mL

ANTIGEN DISTRIBUTION AND SPECIFICITY:

The human CD71 antigen is a homodimeric glycoprotein and is known as the transferrin receptor. It is present on activated T and B lymphocytes, macrophages, brain endothelium, and on other proliferating cells. With a molecular weight of approximately 90 kilodaltons, this receptor is internalized to deliver iron for cellular metabolism.

Note: This clone does NOT react with neonatal or immature erythrocytes.

CLONE: D4 Immunoglobulin chain composition: Mouse IgG2b,kappa

CONJUGATION: Fluorescein isothiocyanate; R-Phycoerythrin

HANDLING AND STORAGE:

All conjugates and purified monoclonal antibody are supplied in liquid form. All conjugates should be protected from exposure to light. Reagents will be in a medium containing 0.01M phosphate-buffered saline, pH 7.4, 0.2% gelatin and 0.1% sodium azide. These preparations should be diluted in a protein-containing or other stabilizing medium to a concentration suitable for use in specific protocols. All reagents in a liquid state should be stored at 2-8^{o} C when not in use.

PRODUCT USE:

For flow cytometry **use 10 uL** per test; For immuno-histochemistry, Purified Anti-71 should be diluted 1:10 - 1:40, using enough reagent to cover the tissue section or cytoprep.

* R-phycoerythrin is registered under U.S. patent numbers 4,520,110 and 4,859,582.

RESEARCH APPLICATIONS:

Enumeration of activated lymphocytes by flow cytometry, and immunofluorescence or immunoenzymatic staining.

Studies involving cellular metabolism, proliferation, and neurology (Mature cells).

CAUTION:

Reagents contain sodium azide, a preservative which may react with lead joints in copper drain lines to form explosive compounds. Even though reagents contain minute quantities of sodium azide, drains should be thoroughly flushed with water when reagents are discarded.

FOR RESEARCH USE ONLY.
NOT INTENDED FOR THERAPEUTIC OR DIAGNOSTIC USE.