

Rev03
Update: Aug,08,2025**DATASHEET**

Anti-Human CD3 Antibody (OKT3), mAb, Mouse

Cat. No.: A02199

Overview

Specificity	The product is specific for human CD3.
Host Species	Mouse
Immunogen	Recombinant human CD3
Species Reactivity	Human
Conjugate	Unconjugated

Applications

Working concentrations for specific applications should be determined by the investigators. The suitability of this antibody for applications other than those listed below has not been determined. For flow cytometric staining, the following concentration range is recommended starting points for this product and is suggested that the reagent be titrated for optimal performance for each application.

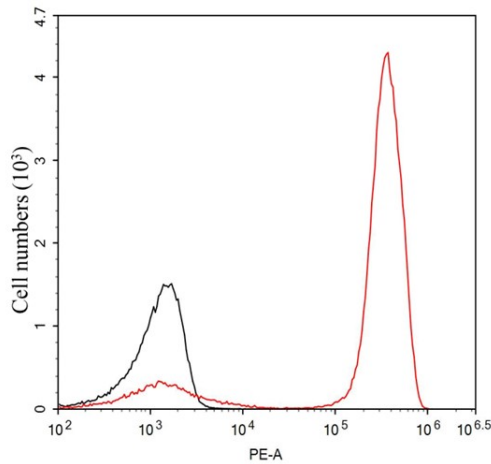
Application	Recommended Usage
Flow Cytometry	≤ 0.25 μg per million cells in 100 μl volume. It is strongly recommended that the reagent should be titrated for optimal performance for each application.

Properties

Form	Liquid
Storage Buffer	Supplied in 10 mM Sodium Citrate, 150 mM NaCl, 0.02 mg/ml Polysorbate 80, pH 5.0.
Concentration	1 mg/ml
Endotoxin Level	< 0.5 EU/ μg by gel clotting method
Storage Instructions	The product remains stable up to 12 months at 4 °C from date of receipt. For longer time storage, store at -80 °C. Avoid repeated freeze-thaw cycles.
Purification	Protein A affinity column
Isotype	Mouse IgG2a
Clonality	Monoclonal

Note GenScript can customize this product per customer's request including conjugations, product size, buffer components, etc.

Examples



Flow cytometric analysis of CD3 expression on human peripheral blood lymphocytes. Human PBMC stained with Anti-Human CD3 Antibody (OKT3), mAb, Mouse (GenScript, Cat. No. A02199, Red) or with mouse IgG2a isotype control (Gray), followed by goat anti-mouse IgG PE-conjugated antibody. Data shown was gated on CD45 (+)/SSC^{Low} lymphocytes.

Background

Target Background : CD3 is a member of the immunoglobulin superfamily, expressed on T cells. It is composed of four distinct chains (ϵ , γ , δ , ζ). CD3 antigen can form a complex with the T cell receptor (TCR) to generate an activation signal in T cells, which plays an important role in TCR signal transduction and both cytotoxic T cell (CD8 + naïve T cells) and T helper cells (CD4+ naïve T cells) activation.

Synonyms : CD3; cluster of differentiation 3

For laboratory research use only. Direct human use, including taking orally and injection and clinical use are forbidden.

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