

CD3 Monoclonal Antibody (OKT3), Functional Grade, eBioscience™

Product Details	
Size	500 µg
Species reactivity	Human
Published species	Fruit fly, Human, Mouse
Host / Isotype	Mouse / IgG2a, kappa
Class	Monoclonal
Type	Antibody
Clone	OKT3
Conjugate	Functional Grade
Form	Liquid
Concentration	1 mg/mL
Purification	Affinity chromatography
Storage buffer	TBS, pH 8.0
Contains	no preservative
Storage conditions	4°C
RRID	AB_468855

Applications	Tested Dilution	Publications
Affinity Purification (AP)	-	4 Publications
ELISA (ELISA)	-	4 Publications
Flow Cytometry (Flow)	0.25 µg/test	81 Publications
Functional Assay (Functional)	Assay-Dependent	97 Publications
Immunocytochemistry (ICC/IF)	-	1 Publication
Immunohistochemistry (IHC)	-	2 Publications
Immunohistochemistry (Paraffin) (IHC (P))	-	1 Publication
In vitro Assay (IV)	-	7 Publications
Miscellaneous Pubmed (Misc)	-	12 Publications
Neutralization (Neu)	-	1 Publication
T-Cell Activation (TCA)	-	6 Publications
Western Blot (WB)	-	4 Publications

Product Specific Information

Description: The OKT3 monoclonal antibody reacts with an epitope on the epsilon-subunit within the human CD3 complex. The OKT3 antibody has been reported to have potent immunosuppressive properties in vivo and has been proven effective in the treatment of renal, heart and liver allograft rejection. The CD3 subunits, gamma, delta, and epsilon chains, are required for proper assembly, trafficking and surface expression of the TCR complex. CD3 is expressed by thymocytes in a developmentally regulated manner and by all mature T cells. Crosslinking of TCR initiates an intracellular biochemical pathway resulting in cellular activation and proliferation.

Applications Reported: The OKT3 antibody has been reported for use in flow cytometric analysis. OKT3 has also been reported for in vitro activation of T cells.

Applications Tested: The OKT3 antibody has been tested by flow cytometric analysis of normal human peripheral blood cells. This can be used at less than or equal to 0.25 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10⁵ to 10⁸ cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Storage and handling: Use in a sterile environment.

Filtration: 0.2 µm post-manufacturing filtered.

Purity: Greater than 90%, as determined by SDS-PAGE.

Endotoxin Level: Less than 0.001 ng/µg antibody, as determined by LAL assay.

Aggregation: Less than 10%, as determined by HPLC.

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