

Product Data Sheet

Anti-human CD3 FITC/(CD16+CD56) PE Cocktail

Catalog # / Size: 319101 / 50 tests

Clone: UCHT1/3G8+MEM-188

Isotype: Mouse IgG1/IgG1/IgG2a

Reactivity: Human

Preparation: This reagent is a combination of FITC conjugated UCHT1 and PE conjugated 3G8 and MEM-188 in optimal concentration for two-color flow cytometric analysis.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA).

Storage: This product is guaranteed for nine months. The antibody solution should be stored undiluted at 4°C and protected from prolonged exposure to light. **Do not freeze.**

Applications:

Applications: FC - *Quality tested*

Recommended Usage: Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For immunofluorescent staining, the suggested use of this reagent is 20 µl per million cells or 20 µl per 100 µl of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.

Description: CD3: UCHT1 antibody reacts with a combinatorial epitope of CD3ε, a 20 kD chain of the CD3/T-cell receptor (TCR) complex found on all mature T lymphocytes, NK-T cells and some thymocytes.
CD16: 3G8 antibody reacts with CD16, a 50-65 kD transmembrane or a 48 kD GPI-anchored glycoprotein that is a member of the immunoglobulin superfamily. CD16 is expressed on NK cells, activated monocytes, macrophages, mast cells and neutrophils.
CD56: MEM-188 antibody reacts with the 175 - 185 kD isoform of CD56, N-CAM (Neural Cell Adhesion Molecule), which is expressed on NK cells and a subset of CD3⁺ T cells. CD56 is also expressed in brain (cerebellum and cortex) and at neuromuscular junctions. Certain large granular lymphocyte (LGL) leukemias, small-cell lung carcinomas, neuronal derived tumors, myelomas, and myeloid leukemias also express CD56.

Antigen References:

1. Barclay N, *et al.* 1993. The Leucocyte FactsBook. Academic Press. San Diego.
2. Beverly P, *et al.* 1981. *Eur. J. Immunol.* 11:329.
3. Lanier L, *et al.* 1986. *J. Immunol.* 137:2501-2507.
4. Fleit H, *et al.* 1982. *P. Natl. Acad. Sci. USA* 79:3275.
5. Stroncek D, *et al.* 1991. *Blood* 77:1572.
6. Wirthmueller U, *et al.* 1992. *J. Exp. Med.* 175:1381.
7. Lanier L, *et al.* 1991. *J. Immunol.* 146:4421.
8. Hemperly J, *et al.* 1990. *J. Mol. Neurosci.* 2:71.
9. Cremer H, *et al.* 1994. *Nature* 367:455.

Related Products:	Product	Clone	Application
	Cell Staining Buffer		FC, ICC, ICFC
	RBC Lysis Buffer (10X)		FC, ICFC
	Mouse IgG1 FITC/IgG2a PE Isotype Ctrl Cocktail	MOPC-21/MOPC-173	FC
	Human TruStain FcX™ (Fc Receptor Blocking Solution)		FC, ICC, ICFC



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