ALPHA DIAGNOSTIC INTERNATIONAL

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Product Data Sheet

Human CD25 (IL-2R alpha) Antibodies and Conjugates

Cat# CD25UL-100	Mouse Anti-Human CD25 IgG, Unlabeled	**Size**: 100 ug
Cat# CD25F-100	Mouse Anti-Human CD25 IgG-FITC Conjugate	**Size**: 100 tests
Cat# CD25P-100	Mouse Anti-Human CD25 IgG-PE Conjugate	**Size**: 100 tests
Cat# CD25PC-100	Mouse Anti-Human CD25 IgG-PE-Cy5 Conjugate	**Size**: 100 tests

CD25 is the alpha chain of the IL-2 receptor. It is a type I transmembrane protein present on activated T cells, activated B cells, some thymocytes, myeloid precursors, and oligodendrocytes that associates with CD122 to form a heterodimer that can act as a high-affinity receptor for IL-2. CD25 is expressed in most B-cell neoplasms, some acute nonlymphocytic leukemias, neuroblastomas, and tumor infiltrating lymphocytes. Its soluble form, called sIL-2R may be elevated in these diseases and is occasionally used to track disease progression.

CD25 McAb recognizes a 55 KD type I transmembrane glycoprotein known as the low-affinity receptor for IL-2 (IL-2Rα). CD25 associates with CD122 (IL-2Rβ,P75) and the common γ Chain-CD132 (IL-2Rγ, P64) to form the high-affinity IL-2R complex. CD25 antigen is expressed on activated T and B lymphocytes and activated macrophages and also on the cells of adult T-cell leukemia (ATL), but is absent from resting T and B cells. Antigen density of CD25 is upregulated by the stimulation of PHA, ConA and CD3 antibody.

Monoclonal anti-human CD25 antibody is produced in mouse (**IgG1 or IgM**), purified, and coupled to FITC, PE, Cy5 etc).

Matching isotype (IgG1) Controls

Catalog#	ProdDescription
20102-101	Mouse IgG1 isotype control, purified
20102-101-APC	Mouse IgG1-APC conjugate (isotype control)
20102-101-B	Mouse IgG1-Biotin conjugate (isotype control)
20102-101-F	Mouse IgG1-FITC conjugate (isotype control)
20102-101-FP	Mouse IgG1-FITC-PE conjugate control)
20102-101-HP	Mouse IgG1-HRP conjugate (isotype control)
20102-101-PC5	Mouse IgG1-PE-Cy5 conjugate control)
20102-101-PE	Mouse IgG1-PE conjugate (isotype control)

Cat# CD25UL-100, unlabeled

The antibody (**IgM isotype**) is supplied in PBS, pH 7.4, and 0.05% azide in either **lyophilized** (100 ug/100 tests) or **liquid** form (see the lot specific volume indicated on the vial). Reconstitute powder in PBS. Store at -2-4oC. Stability is ~6-12 months. Do not freeze and thaw.

Cat# CD25F-100, FITC-conjugate

Purified antibody (IgG1) was coupled to FITC at F/P ratio ~5. The antibody is supplied in PBS, pH 7.4, 1% BSA (see lot sp concn on the vial) or in powder form. **Reconstitute** powder in PBS**.** Store at -20oC in suitable aliquots. Stability is ~6-12 months. Do not freeze/thaw.

Suggested conjugate dilutions are 1:20-1:500 for immunofluorescence. Or 1 test equivalent of antibody per million cells.

Absorption @495 nm **Emission** @528 nm

Cat# CD25P-100, PE-conjugate

The purified antibody was coupled to R-Phycoerythrin (R-PE) (Molecular Weight 240,000 daltons) from seaweed using proprietary methods (A565nm/A280nm ~3-4).

Absorption @490 nm, 545 nm and 565 nm
Emission Wavelength: 580 nm

The conjugate is provided in PBS, pH 7.5, containing 0.1% bovine serum albumin, (BSA) 0.05% sodium azide and stabilizing agent). DO NOT FREEZE. The product should be stored at 4oC and is stable for a minimum of 1 year. Do not store diluted solutions.

Recommended usage 1 test equivalent of antibody per million cells for Flow cytometry or FACS. Due to many experimental variations, optimum concn must be determined for a given applications

Cat# CD25PC-100, PE-Cy5-conjugate

Purified antibody was coupled to PE-Cy5.5 (Cyanine 5.29-OSu) (Molecular Weight 975 daltons) at F/P ratio ~6:1. The antibody is supplied in PBS, pH 7.4, 0.5% BSA, IgG, and 0.05% azide in either **lyophilized** or **liquid** form (see lot specific conc on the vial). Reconstitute powder in PBS. Store at -20oC in suitable aliquots. Stability is ~6-12 months. Do not freeze and thaw.

Suggested applications: Suitable for immunomicroscopy and flow cytometry or FACS analysis as well as other antibody based fluorescent assays

Suggested conjugate dilutions are 1:100-1:500 for immunofluorescence. Users must optimize the dilutions for a given technique. Or 1 test equivalent of antibody per million cells.
Absorption Wavelength: 650 nm
Emission Wavelength: 667 nm

Recommended Working Dilution for ELISA

Working dilution for the specific application should be determined by the investigator to obtain the best conditions and prepared immediately before use. Diluted solution should be discarded. This product can be used in immunodiffusion, ELISA, flow cytometry, immunofluorescence or immunolocalization.

Related Material available for ADI

CD25	110512A

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