

Rabbit anti-Mouse CD25 Monoclonal Antibody | anti-CD25 antibody

Anti-CD25 [2E4]

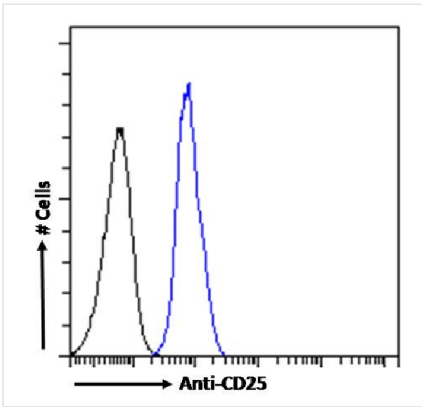
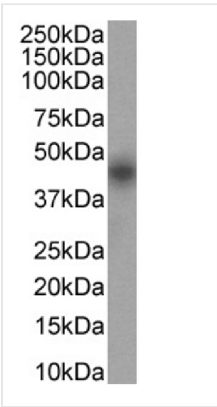
CATALOG # AAA72227	HOST Rabbit	REACTIVITY Mouse	APPLICATIONS Flow Cytometry, Functional Assay
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PRODUCT SYNONYMS

CD25; Monoclonal Antibody; Anti-CD25 [2E4]; IL-2-RA; Interleukin-2 receptor subunit alpha; IL-2 receptor subunit alpha; IL-2R subunit alpha; IL2-RA; p55; anti-CD25 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Mouse
Clonality	Monoclonal
Isotype	Rabbit IgG, kappa
Clone Number	20000
Specificity	2E4 recognizes mouse CD25. This epitope is distinct from the IL-2 binding site and does not block binding of IL-2 to CD25. This antibody binds the same or overlapping epitope as 7D4 (Ab02216) but different than Ab01107. Murine CD25 is a 55 kDa interleukin-2 receptor alpha chain (IL-2R alpha). CD25 is expressed by early progenitors of the T and B lineage as well as by activated mature T and B lymphocytes. By itself, CD25 binds IL-2 only with low affinity. However, CD25 associates with CD122 (IL-2 receptor beta chain) and CD132 (common gamma chain) to form the high affinity IL-2 receptor.
Purity/Purification	Purified antibody. Protein A affinity purified
Form/Format	PBS with 0.02% Proclin 300.
Concentration	1mg/ml (varies by lot)
Applicable Applications for anti-CD25 antibody	FCM/FACS (Flow Cytometry)
Chimeric Use Statement	This chimeric rabbit antibody was made using the variable domain sequences of the original Mouse IgG1 format, for improved compatibility with existing reagents, assays and techniques.
PMID	6206144
Preparation and Storage	Store at 4 degree C for up to 3 months. For longer storage, aliquot and store at -20 degree C.



WB (Western Blot)
Western Blot using Anti-CD25 antibody 2E4 (AAA72227). Mouse lymph node tissue lysates (35ug protein in RIPA buffer) were resolved on a SDS PAGE gel and blots were probed with the chimeric rabbit version of 2E4 () at 0.5ug/ml before detection using an anti-rabbit secondary antibody. A primary incubation of 1h was used and protein was detected by chemiluminescence.

FCM/FACS (Flow Cytometry)
Flow cytometry using the Anti-CD25 antibody 2E4 (AAA72227). Paraformaldehyde fixed mouse splenocytes permeabilized with 0.5% Triton were stained with anti-unknown specificity antibody or the rabbit IgG version of 2E4 (, blue line) at a dilution of 1:100 for 1h at RT. After washing, the bound antibody was detected using a goat anti-rabbit IgG AlexaFluor 488 antibody at a dilution of 1:1000 and cells analyzed using a FACSCanto flow-cytometer.

ADDITIONAL INFORMATION

Related Product Information for anti-CD25 antibody	Recombinant monoclonal antibody to CD25. Recombinant Platform with variable regions (i.e. specificity) from the hybridoma 2E4. The original version of this antibody was raised to Recognise mouse CD25.
Product Categories/Family for anti-CD25 antibody	T cells; Treg; regulatory T cells; lymphocytes; immunotherapy; cancer; tumor; interleukin 2; effector T cells; recombinant immunotoxin; RIT; antibody-drug conjugate; tumour
References	Ortega et al. The murine IL 2 receptor. I. Monoclonal antibodies that define distinct functional epitopes on activated T cells and react with activated B cells J Immunol. 1984 Oct;133(4):1970-5. Note on publication: Describes the characterization of the antibody 2E4.

NCBI AND UNIPROT INFORMATION

NCBI GI #	124318
NCBI GeneID	16184
UniProt Accession #	P01590; Q61731
Molecular Weight	30,723 Da
NCBI Official Full Name	Interleukin-2 receptor subunit alpha
NCBI Official Synonym Full Names	interleukin 2 receptor, alpha chain
NCBI Official Symbol	IL2ra
NCBI Official Synonym Symbols	CD25; IL2r; Ly-43
NCBI Protein Information	interleukin-2 receptor subunit alpha; IL2-RA; IL-2-RA; p55 chain; IL-2R alpha chain; IL-2R subunit alpha; IL-2 receptor subunit alpha
UniProt Protein Name	Interleukin-2 receptor subunit alpha
UniProt Gene Name	IL2ra
UniProt Synonym Gene Names	IL2r; IL-2 receptor subunit alpha; IL-2-RA; IL-2R subunit alpha; IL2-RA
UniProt Entry Name	IL2RA_MOUSE

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/cd25-antibody-clone-20000-flow-cytometry-elisa/72227>