

Mouse CD25 Monoclonal Antibody | anti-CD25 antibody

MOUSE ANTI DOG CD25:FITC

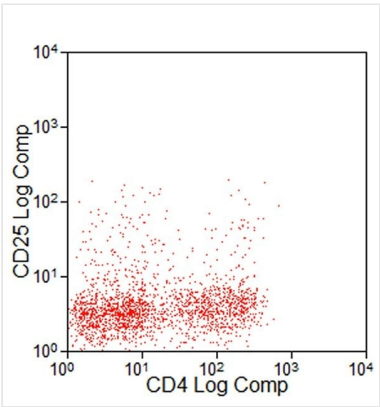
CATALOG # AAA49817	HOST Mouse	APPLICATIONS Flow Cytometry, Functional Assay
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PRODUCT SYNONYMS

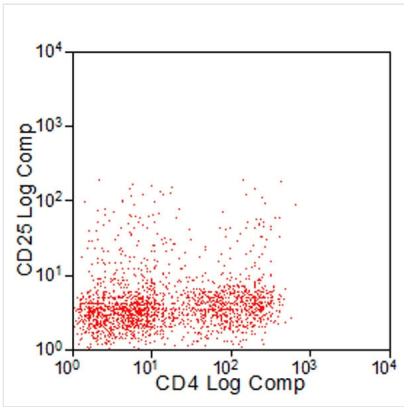
CD25; Monoclonal Antibody; MOUSE ANTI DOG CD25:FITC; anti-CD25 antibody

PRODUCT SPECIFICATIONS

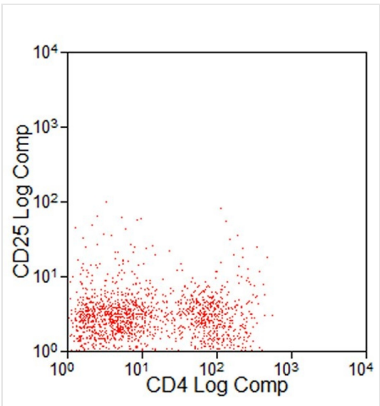
Host	Mouse
Clonality	Monoclonal
Isotype	IgG1
Clone Number	P4A10
Form/Format	FITC Purified IgG conjugated to Fluorescein Isothiocyanate Isomer 1 (FITC) - liquid
Concentration	IgG concentration 0.1 mg/ml (varies by lot)
Sequence Length	268
Applicable Applications for anti-CD25 antibody	FCM/FACS (Flow Cytometry)
Perservative Stabilisers	0.09% Sodium Azide (NaN ₃) 1% Bovine Serum Albumin Preparation
Buffer Solution	Phosphate buffered saline
Target Species	Dog
Preparation and Storage	Store at 4 degree C or at -20 degree C if preferred. Storage in frost-free freezers is not recommended. This product should be stored undiluted. This product is photosensitive and should be protected from light. Should this product contain a precipitate we recommend microcentrifugation before use. Shelf Life: 18 months from date of despatch



Application Data
Canine peripheral blood lymphocytes stained with Mouse anti Dog CD25 followed by Goat anti Mouse IgG:FITC and dual stained with Rat anti Dog CD4:Alexa Fluor647



Application Data
Canine peripheral blood lymphocytes stained with Mouse anti Dog CD25:RPE and dual stained with Rat anti Dog CD4:Alexa Fluor647



Application Data
Canine peripheral blood lymphocytes stained with Mouse anti Dog CD25:FITC and dual stained with Rat anti Dog CD4:Alexa Fluor647

ADDITIONAL INFORMATION

Related Product Information for anti-CD25 antibody	Mouse anti Dog CD25, clone P4A10 recognises the canine homologue of the human CD25 cell surface antigen, also known as IL-2Ralpha, a glycoprotein of approximately 55kDa expressed primarily by activated T lymphocytes (Abrams et al. 2010). The IL-2 receptor is composed of 3 subunits, an alpha chain (CD25), a beta chain (CD122) and a gamma chain (CD132), CD25 functions as a low affinity receptor for IL-2. Research has demonstrated that antibodies to CD4, FoxP3 and CD25 may be used in studies of T regulatory cells (Tregs), a unique subset of T helper cells that function in the control of effector cells vital in preventing autoimmunity. Previous studies of canine Tregs have utilized the mouse anti human CD25 monoclonal antibody, clone ACT1, which has demonstrated cross reactivity to canine CD25 (Rissetto et al. 2010). However this clone has poor affinity for canine CD25. The development of clone P4A10 now offers a specific monoclonal Mouse anti Canine CD25, demonstrating a greater affinity for canine CD25 than the cross reactive anti human antibody (Abrams et al. 2010). The dog is an important veterinary species in its own right. In addition dogs are used as an animal model in the study of a number of serious human disease states including various forms cancers (Paoloni et al. 2008), and in genetically related diseases of the hemopoietic system (Bauer et al. 2009). The generation of clone P4A10 provides an improved tool for the identification of canine CD25 and will facilitate studies in this species.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	50978976
NCBI GeneID	403870
NCBI Accession #	NP_001003211.1
NCBI GenBank Nucleotide #	NM_001003211.1

UniProt Accession #	O62802
Molecular Weight	30,357 Da
NCBI Official Full Name	interleukin-2 receptor subunit alpha
NCBI Official Symbol	IL2RA
NCBI Official Synonym Symbols	CD25; IL-2RA
NCBI Protein Information	interleukin-2 receptor subunit alpha; IL-2 receptor subunit alpha; IL-2-RA; IL-2R subunit alpha; IL2-RA; TAC antigen; interleukin 2 receptor alpha chain; interleukin-2 receptor alpha subunit; p55
UniProt Protein Name	Interleukin-2 receptor subunit alpha
UniProt Gene Name	IL2RA
UniProt Synonym Gene Names	IL-2 receptor subunit alpha; IL-2-RA; IL-2R subunit alpha; IL2-RA
UniProt Entry Name	IL2RA_CANFA

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-p4a10-flow-cytometry-elisa/49817>