

Rat CD8 Monoclonal Antibody | anti-CD8 antibody

RAT ANTI DOG CD8:FITC

CATALOG # AAA12066	HOST Rat	APPLICATIONS Flow Cytometry, Functional Assay
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PRODUCT SYNONYMS

CD8; Monoclonal Antibody; RAT ANTI DOG CD8:FITC; anti-CD8 antibody

PRODUCT SPECIFICATIONS

Host	Rat
Clonality	Monoclonal
Isotype	IgG1
Clone Number	YCATE55.9
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	239
Applicable Applications for anti-CD8 antibody	FCM/FACS (Flow Cytometry)
Application Notes	Flow Cytometry: Use 10ul of the suggested working dilution to label 106 cells in 100ul. Flow Cytometry: Minimum Dilution: Neat; Maximum Dilution: 1/5
Perservative Stabilisers	0.09% Sodium Azide 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. This product should be stored undiluted. Storage in frost-free freezers is not recommended. This product is photosensitive and should be protected from light. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use. Shelf Life: 18 months from date of despatch.

IMAGES



Application Data

Staining of canine peripheral blood lymphocytes with Rat anti Canine CD8:RPE



Application Data

Published customer image: Immunophenotypic profile of tumor infiltrating lymphocyte in canine mammary carcinomas. Analysis of tumor infiltrating T-cells, B-lymphocytes and T-cell subsets from MC-BMT or MC (A), further subcategorized according to the absence (-) or presence (+) of lymph node metastasis (-) (B). Lymphocyte populations and subsets were identified by flow cytometric immunostaining as described in Material and Methods. Data were expressed as percentage of positive cells within gated lymphocytes and CD4+/CD8+ T-cell ratio. Significant differences at $p < 0.05$ are highlighted by asterisk.From: Estrela-Lima et al. BMC Cancer 2010 10:256.



Application Data

Published customer image:Survival rates of animals with canine mammary carcinoma. Kaplan-Meier survival curves for animals for All (MC-BMT and MC) animals categorized according to the relative percentage of CD4+ T-cells (33.3%) (A). Animals were submitted to quarterly follow-ups during twelve months and survival rates expressed in days between the surgical excisions of the end of follow-up as described in Methods. The survival curves were estimated with the Kaplan-Meier method followed by Log-rank test. Correlation analysis highlighted the significant association between the percentages of CD4+ T-cells and CD8+ T-cells with the animal survival in days (B).From: Estrela-Lima et al. BMC Cancer 2010 10:256.



Application Data

Published customer image: CD11b+CD14-MHCII- cells suppress T cell proliferation. Facs sorted CD11b+CD14-MHCII- cells isolated from a dog with osteosarcoma or healthy PBMCs were co-incubated with mitogen-stimulated CD4+ and CD8+ T cells isolated from a healthy dog for 72 hs. No stimulated cells were used as negative control. Proliferative responses were measured by 3H-thymidine incorporation from experiments performed in triplicate. CPM, counts per minute. Mean +/- SEM are shown.From: Goulart MR, Pluhar GE, Ohlfest JR (2012) Identification of Myeloid Derived Suppressor Cells in Dogs with Naturally Occurring Cancer. PLoS ONE 7(3): e33274.



Application Data

Staining of canine peripheral blood lymphocytes with Rat anti Dog CD8



Application Data

Staining of canine peripheral blood lymphocytes with Rat anti Canine CD8:FITC

ADDITIONAL INFORMATION

Related Product Information for anti-CD8 antibody	Rat anti Dog CD8 antibody, clone YCATE55.9 was clustered as Canine CD8 in the First Canine Leukocyte Antigen Workshop (Cobbold et al. 1994). YCATE55.9 reacts with a rat cell line transfected with cDNA for canine CD8alpha (Gorman et al. 1994) and blocks MHC class I dependant T-cell responses in vitro and in vivo. Rat anti Dog CD8, clone YCATE55.9 has been shown to deplete circulating CD8+ T cells when administered to dogs in vivo. (Watson et al. 1993) Reduced levels of circulating CD8+ T cells has been associated with decreased survival times for dogs with osteosarcoma (Biller et al. 2010)
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NCBI AND UNIPROT INFORMATION

NCBI GI #	55742790
NCBI GeneID	403157
NCBI Accession #	NP_001002935.1
NCBI GenBank Nucleotide #	NM_001002935.2
UniProt Accession #	P33706
Molecular Weight	26,036 Da
NCBI Official Full Name	T-cell surface glycoprotein CD8 alpha chain
NCBI Official Symbol	CD8A
NCBI Protein Information	T-cell surface glycoprotein CD8 alpha chain; CD8 antigen, alpha polypeptide (p32)

UniProt Protein Name	T-cell surface glycoprotein CD8 alpha chain
UniProt Gene Name	CD8A
UniProt Entry Name	CD8A_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/cd8-antibody-clone-ycate55-9-flow-cytometry-elisa/12066>