Mouse CD4 Monoclonal Antibody | anti-CD4 antibody

MOUSE ANTI SHEEP CD4:FITC

CATALOG #	HOST	APPLICATIONS
AAA49646	**Mouse**	**Flow Cytometry, Functional Assay**

PRODUCT SYNONYMS

CD4; Monoclonal Antibody; MOUSE ANTI SHEEP CD4:FITC; anti-CD4 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Clonality	Monoclonal
Isotype	IgG2a
Clone Number	44.38
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	20
Applicable Applications for anti-CD4 antibody	FCM/FACS (Flow Cytometry)
Perservative Stabilisers	0.09% Sodium Azide 1% Bovine Serum Albumin Preparation
Immunogen	Fetal thymocytes Fusion Partners
Target Species	Sheep
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

Published customer image: Distribution of ovine NKp46+ cells in lymph nodes and mucosal surfaces. Sections from ovine pre-scapular lymph node (A - cortex and B - medullary zone), abomasum (C), duodenum (D), ileum (E), colon (F), uterus (G) and lung (H). NKp46+ cells: green; B-cells (IgM+) red; CD4+ T-cells blue in panel A and B; Epithelial cells (E-cadherin+) blue in parts C-H. White arrows: individual NKp46+ cells. Red arrows: putative intra-epithelial NKp46+ cells. "Fo": follicle and "P": paracortex. "L": lymphocytic aggregate. Isotype matched controls demonstrated diffuse and dull background fluorescence in both the red and green channels (data not shown), however this could easily be distinguished by character and/or intensity from the bright cell-surface staining seen with the NKp46 and IgM-specific antibodies. Autofluorescent artifacts such as those demonstrated by the yellow arrows (e.g. in C and D) were not uncommon in the tissues examined. A scale for each of the figure parts is given. Images are taken from tissues that were representative of samples taken from a minimum of three animals as determined by preliminary single colour immuncytochemistry analysis.From: Connelley, T. et al. NKp46 defines ovine cells that have characteristics corresponding to NK cells. Vet Res. 2011 42: 37.



Application Data

Published customer image: Analysis of the phenotype of ovine NKp46+ populations. (A)Two-colour flow cytometry analysis of ovine PBMC co-stained with EC1.1 and a selection of monoclonal antibodies against CD2, CD4, CD8, CD11b, CD16, WC1, IgM and MHCII. WC1 and IgM are surface molecules expressed by subsets of ?d T-cells and B-cells respectively. (B) Perforin expression by NKp46+ PBMC. Cells expressing NKp46 were stained with anti-perforin monoclonal antibody (solid line) or an isotype control (broken line). (C) Two-colour flow cytometry analysis of mesenteric and pre-scapular lymph nodes and the spleen cell populations co-stained with EC1.1 and monoclonal antibodies against CD2 and CD8. The results shown are representative of the results obtained from a minimum of five animals.From: Connelley, T. et al. NKp46 defines ovine cells that have characteristics corresponding to NK cells. Vet Res. 2011 42: 37.



Application Data

Staining of ovine peripheral blood lymphocytes with Mouse anti Ovine CD4 Alexa Fluor 647

ADDITIONAL INFORMATION

Related Product Information for anti-CD4 antibody	Mouse anti Sheep CD4 antibody, clone 44.38 recognizes the ovine CD4 cell surface glycoprotein, which is expressed by a subset of mature T lymphocytes. Mouse anti Sheep CD4 antibody, clone 44.38 immunoprecipitates a protein of ~56 kDa under reducing conditions.

NCBI AND UNIPROT INFORMATION

NCBI GI #	116018
UniProt Accession #	P05542
Molecular Weight	1,928 Da
NCBI Official Full Name	T-cell surface glycoprotein CD4
UniProt Protein Name	T-cell surface glycoprotein CD4
UniProt Gene Name	**CD4**
UniProt Entry Name	CD4_SHEEP

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/cd4-antibody-clone-44-38-flow-cytometry-elisa/49646