

Product datasheet

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ARG22644 anti-CD8a + CD8b antibody [vpg9]

Package: 50 μg Store at: -20°C

Summary

Product Description Mouse Monoclonal antibody [vpg9] recognizes CD8a + CD8b

This antibody recognizes Feline homolog of Human CD8. Clone vpg 9 specifically recognizes an epitope

associated with the alpha/beta complex of the CD8 heterodimer (Shimojima et al. 1998).

Tested Reactivity Cat

Tested Application FACS, IHC-Fr

Host Mouse

Clonality Monoclonal

Clone vpg9

Isotype IgG1

Target Name CD8a + CD8b

Species Cat

Immunogen Feline thymocytes.

Conjugation Un-conjugated

Alternate Names T-cell surface glycoprotein CD8 alpha chain; Leu2; p32; T-lymphocyte differentiation antigen T8/Leu-2;

CD8; MAL; CD antigen CD8a

Application Instructions

Application table	Application	Dilution
	FACS	1:25 - 1:200
	IHC-Fr	Assay-dependent
Application Note	FACS: Use 10 μ l of the suggested working dilution to label 10^6 lymphocytes in 100 μ l. * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

Properties

Form	Liquid	
Purification	Purification with Protein A.	
Buffer	PBS and 0.09% Sodium azide.	
Preservative	0.09% Sodium azide	
Concentration	1 mg/ml	
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.	

Bioinformation

Gene Symbol CD8A

Gene Full Name CD8a molecule

Background CD8 antigen is a cell surface glycoprotein found on most cytotoxic T lymphocytes that mediates

efficient cell-cell interactions within the immune system. The CD8 antigen acts as a coreceptor with the T-cell receptor on the T lymphocyte to recognize antigens displayed by an antigen presenting cell in the context of class I MHC molecules. The coreceptor functions as either a homodimer composed of two alpha chains or as a heterodimer composed of one alpha and one beta chain. Both alpha and beta chains share significant homology to immunoglobulin variable light chains. This gene encodes the CD8 alpha chain. Multiple transcript variants encoding different isoforms have been found for this gene.

[provided by RefSeq, Nov 2011]

Function CD8 is an integral membrane glycoprotein that plays an essential role in the immune response and

serves multiple functions in responses against both external and internal offenses. In T-cells, functions primarily as a coreceptor for MHC class I molecule:peptide complex. The antigens presented by class I peptides are derived from cytosolic proteins while class II derived from extracellular proteins. Interacts simultaneously with the T-cell receptor (TCR) and the MHC class I proteins presented by antigen presenting cells (APCs). In turn, recruits the Src kinase LCK to the vicinity of the TCR-CD3 complex. LCK then initiates different intracellular signaling pathways by phosphorylating various substrates ultimately leading to lymphokine production, motility, adhesion and activation of cytotoxic T-lymphocytes (CTLs). This mechanism enables CTLs to recognize and eliminate infected cells and tumor cells. In NK-cells, the presence of CD8A homodimers at the cell surface provides a survival mechanism allowing conjugation and lysis of multiple target cells. CD8A homodimer molecules also promote the survival and

differentiation of activated lymphocytes into memory CD8 T-cells. [UniProt]

Highlight Related products:

CD8 antibodies; CD8 ELISA Kits; CD8 Duos / Panels; Anti-Mouse IgG secondary antibodies;

Related news:

New antibody panels and duos for Tumor immune microenvironment

Tumor-Infiltrating Lymphocytes (TILs)

Research Area Developmental Biology antibody; Immune System antibody; Cytotoxic T antibody; Cytotoxic T Cell

Surface Study antibody; Tumor-infiltrating Lymphocyte Study antibody

Calculated Mw 26 kDa

PTM All of the five most C-terminal cysteines form inter-chain disulfide bonds in dimers and higher

multimers, while the four N-terminal cysteines do not.

Images

10⁴ Y 10³ 10² 10¹ 10² 10³ 10⁴ 10⁵ FITC-A

ARG22644 anti-CD8a + CD8b antibody [vpg9] FACS image

Flow Cytometry: Cat lymphocytes stained with ARG22644 anti-CD8a + CD8b antibody [vpg9] followed by Goat anti-Mouse IgG (FITC); dual stained with Mouse anti-Cat CD4 (RPE).