

Product datasheet

Anti-CD8 alpha antibody [3-298] (FITC) ab24910

Overview

Product name	Anti-CD8 alpha antibody [3-298] (FITC)
Description	Mouse monoclonal [3-298] to CD8 alpha (FITC)
Host species	Mouse
Conjugation	FITC. Ex: 493nm, Em: 528nm
Specificity	This antibody recognises CD8a.
Species reactivity	Reacts with: Chicken, Turkey
Immunogen	The details of the immunogen for this antibody are not available.

General notes

In chicken, the CD8 molecule is present in two forms: (i) a homodimer of two alpha chains, and (ii) a heterodimer of an alpha chain and a beta chain. Chicken CD8 is expressed on approximately 80% of thymocytes, 45% of blood mononuclear cells and 50% of spleen cells, but <1% of cells in the bursa and bone marrow. While the vast majority of CD8+ cells in the thymus, spleen, and blood of adult chickens express both CD8 alpha and CD8 beta chains, a relatively large proportion of the CD8+ TCR gamma delta cells in the spleens of embryos and young chicks express only the alpha chain of CD8. Among intestinal epithelial lymphocytes, the major CD8+ T cell populations present in mice are conserved, but there is a population of TCR gamma delta CD8 alpha beta cells in the chicken that is not found in rodents.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C.
Storage buffer	Preservative: 0.1% Sodium azide Constituent: PBS
Purity	Affinity purified

Primary antibody notes

In chicken, the CD8 molecule is present in two forms: (i) a homodimer of two alpha chains, and (ii) a heterodimer of an alpha chain and a beta chain. Chicken CD8 is expressed on approximately 80% of thymocytes, 45% of blood mononuclear cells and 50% of spleen cells, but <1% of cells in the bursa and bone marrow. While the vast majority of CD8+ cells in the thymus, spleen, and blood of adult chickens express both CD8 alpha and CD8 beta chains, a relatively large proportion of the CD8+ TCR gamma delta cells in the spleens of embryos and young chicks express only the alpha chain of CD8. Among intestinal epithelial lymphocytes, the major CD8+ T cell populations present in mice are conserved, but there is a population of TCR gamma delta

	CD8 alpha beta cells in the chicken that is not found in rodents.
Clonality	Monoclonal
Clone number	3-298
Isotype	IgG2b
Light chain type	kappa
Target	
Function	Identifies cytotoxic/suppressor T-cells that interact with MHC class I bearing targets. CD8 is thought to play a role in the process of T-cell mediated killing. CD8 alpha chains binds to class I MHC molecules alpha-3 domains.
Involvement in disease	Defects in CD8A are a cause of familial CD8 deficiency (CD8 deficiency) [MIM:608957]. Familial CD8 deficiency is a novel autosomal recessive immunologic defect characterized by absence of CD8+ cells, leading to recurrent bacterial infections.
Sequence similarities	Contains 1 Ig-like V-type (immunoglobulin-like) domain.
Post-translational modifications	All of the five most carboxyl-terminal cysteines form inter-chain disulfide bonds in dimers and higher multimers, while the four N-terminal cysteines do not.
Cellular localization	Secreted and Cell membrane.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.com/abpromise> or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors