



RayBiotech, Inc.

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Certificate of Analysis and Data Sheet

MOUSE ANTI PIG wCD8a

With HRP-conjugated secondary antibody

Catalog No.
DS-MB-00930

Species:
Pig

Isotype:
Mouse IgG2a

Description

The T cell receptor (TCR) is a heterodimer composed of either α and β or γ and δ chains. CD3 chains and the CD4 or CD8 co-receptors are also required for efficient signal transduction through the TCR. The TCR is expressed on T helper and T cytotoxic cells that can be distinguished by their expression of CD4 and CD8; T helper cells express CD4 proteins and T cytotoxic cells display CD8. CD8 (also designated Leu 2 or T8), a cell surface glycoprotein, is a two chain complex ($\alpha\alpha$ or $\alpha\beta$) receptor that binds class I MHC molecules presented by the antigen-presenting cell (APC). A primary function of CD8 is to facilitate antigen recognition by the TCR and to strengthen the avidity of the TCR-antigen interactions. An additional role for CD8-expressing T cells may be to maintain low levels of HIV expression.

Applications

Table Summary of antibody applications and working conditions

Options Functions	YES	NO	Not determined	Recommended Work dilution or concentration
ELISA			•	
Western Blotting			•	
Immunohistology - frozen	•			Neat
Immunohistology - paraffin			•	
Immunohistology - resin			•	
Immunoprecipitation			•	
Flow Cytometry	•			1/10*
Immunofluorescence staining			•	
Neutralization			•	

Note: Other applications are not tested yet. Optimal dilutions should be determined by each laboratory for each application.

*Use 10ul of the suggested working dilution to label 10⁶ cells in 100ul. Method sheets are available on request.

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Not for diagnostic or therapeutic use.**



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Preparation

Immunogen was recombinant protein derived from porcine mesenteric lymphocytes. This antibody was produced from a hybridoma resulting from the fusion of a mouse myeloma with B cells obtained from a mouse immunized with the immunogen. The IgG fraction of Tissue Culture Supernatant containing 0.2M Tris/HCl pH7.4 and 5-10% foetal calf serum.

Specificity

DS-MB-00930 recognizes a subset of porcine T cells.

Reconstitution

Supplied as 2ml of purified antibody. **Please avoid freeze-thaw cycles.**

Secondary Antibody Applications

Options Functions	YES	NO	Not determined	Recommended Work dilution or concentration
Immunoassay (ELISA, Western blot)	•			1:5000-1:10000

Storage

Store at -20⁰C, if not intended for use within a month. Keep it at 4⁰C and minimize freezing and thawing when use.

Reference

Sarradell, J. *et al.* (2003) A morphologic and immunohistochemical study of the bronchus-associated lymphoid tissue of pigs naturally infected with *Mycoplasma Hyopneumonial*. Vet. Pathol. 40: 395 - 404.

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