



RayBiotech, Inc.

3607 Parkway Lane suite 200
Norcross, GA 30092
Tel: 770-729-2992, 1-888-494-8555
Fax: 770-206-2393
Website: www.raybiotech.com
Email: info@raybiotech.com

Certificate of Analysis and DataSheet Mouse Anti T-Cell Receptor V Alpha-24

Catalog No.
MD-21-0008

Species
Human

Isotype
IgG₁

Description

Monoclonal antibody to T-Cell Receptor V alpha-24

Preparation

Host Animal: Mouse. Hybridization of PAI myeloma cells with spleen cells from BALB/c mice.
Source: Ascites
Immunogen: Human T-Cell clone
Purification: Ion exchange chromatography

Specificity

Human variable alpha-24 chain of the T cell receptor also called TCRAV24S1 according to the nomenclature from Arden et al (1). V-alpha-24 is a single membered subfamily (IGRa02 sequence (2)). The antibody has been described in (3, 4); it was characterized on human T cell clones and by extensive cell sorting followed by molecular biology analysis. V-alpha-24 has been shown to be expanded in a clonal fashion in the CD3+ CD8- CD4- cell population in PBL of several donors. The specificity of this antibody has been studied at the First Human TcR Monoclonal Antibody Workshop in San Francisco in 1995 (5).

Formulation

Format: Purified, Lyophilized
Reconstitute: Reconstitute with 0.5ml of distilled water.
Concentration: Not applicable
Affinity Constant: Not determined.
Buffer: Lyophilized from PBS containing 1mg/ml BSA
Preservative: None

**The products are furnished for LABORATORY RESEARCH USE ONLY.
Not for diagnostic or therapeutic use.**



RayBiotech, Inc.

3607 Parkway Lane suite 200
Norcross, GA 30092
Tel: 770-729-2992, 1-888-494-8555
Fax: 770-206-2393
Website: www.raybiotech.com
Email: info@raybiotech.com

Storage

Store lyophilized product at 2–8°C. After reconstitution, aliquot and store at -20°C. Avoid multiple freeze/thaw cycles. The addition of 0.1% (w/v) sodium azide is recommended for storage of the reconstituted form for up to one month at 2–8°C.

Applications

T-cell repertoire studies, Fluorescent microscopy or flow cytometry: 2 μ g/5x10⁵ cells/tests
Each laboratory should determine an optimum working titer for use in its particular application. Other applications have not been tested but use in such assays should not necessarily be excluded.

Table Summary of antibody applications and working conditions

Options Functions	YES	NO	Not determined	Recommended Work dilution or concentration
ELISA			.	
Western Blotting			.	
Immunofluorescence	.			
IHC - frozen			.	
Flow Cytometry	.			
Immunoprecipitation			.	

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

References

1. Arden, B., et al., (1995), “Human T cell receptor variable gene segment families”, Immunogenetics, 42, 455–500.
2. Roman-Roman, S., et al., (1991), “Studies of the human T-cell receptor alpha/beta variable region genes I. Identification of 7 additional V-alpha subfamilies and 14 J-alpha gene segments”, Eur. J. Immunol., 21, 927–933.
3. Padovan, E., et al., (1993), “Expression of two T-cell receptor alpha chains: Dual receptor T cells”, Science, 262, 422–424.
4. Dellabona, P., et al., (1994), “An invariant V-alpha-24-J-Alpha Q/V-beta-11 T-cell receptor is expressed in all individuals by clonally expanded CD4-8-T cells”, J. Exp. Med., 180, 1171–1176.
5. Posnett, D.N., et al., (1996), “First human TcR monoclonal antibody workshop”, The Immunologist, 4, 1, 5–8.

**The products are furnished for LABORATORY RESEARCH USE ONLY.
Not for diagnostic or therapeutic use.**