



RayBiotech, Inc.

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Certificate of Analysis and Data Sheet

Rat Anti-Human CD3

With HRP-conjugated Secondary Antibody

Catalog No.
DS-MB-03648

Target Species
Human

Isotype
IgG1

Preparation

Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant

Synonyms: T3E

Immunogen: Synthetic peptide sequence derived from cytoplasmic epitope of CD3 (Glu-Arg-Pro-Pro-Pro-Val-Pro-Asn-Pro-Asp-Tyr-Glu-Pro-Cys)

Formulation

Product Form: Purified IgG - liquid

Product Type: Monoclonal Antibody

Buffer Solution: Phosphate buffered saline

Preservative Stabilizers: 0.09% Sodium Azide

Approx. Protein Concentrations: IgG concentration 1.0 mg/ml

Specificity

DS-MB-03648 recognizes a highly conserved epitope of the CD3 molecule expressed by T lymphocytes

Species Cross Reactivity: Reacts with Bovine, Dog, Horse, Rhesus Monkey, Pig, Chicken, Mouse, Duck

N.B. Antibody reactivity and working conditions may vary between species.

Storage

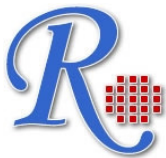
Store at +4°C or at -20°C if preferred.

This product should be stored undiluted.

Storage in frost free freezers is not recommended. 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 dispatch.

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



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Applications

Options Functions	YES	NO	Not determined	Recommended Work dilution or concentration
Flow Cytometry (1)	•			1/50 - 1/100
Immunohistology - Frozen	•			1/100
Immunohistology – Paraffin (2)	•			1/100
ELISA			•	
Immunofluorescence	•			
Western Blotting	•			

Note: Other applications have not been tested. Optimal dilutions should be determined.

(1) Membrane permeabilization is required for this application.

(2) This product requires antigen retrieval using heat treatment for 20 minutes prior to staining of paraffin sections. 1mM EDTA pH8.0 is recommended for this purpose. Histology Positive Control Tissue: Tonsil

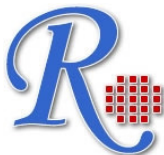
Secondary Antibody Applications

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

References

1. Jones, M. *et al.* (1993) Detection of T and B cells in many animal species using cross-reactive anti-peptide antibodies. *J. Immunol.* 150: 5429-5435.
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3. Kapturczak, M. H. *et al.* (2004) Heme oxygenase-1 modulates early inflammatory responses: evidence from the heme oxygenase-1-deficient mouse. *Am. J. Pathol.* 165: 1045-1053.
4. Kothlow, S. *et al.* (2005) Characterization of Duck Leukocytes by monoclonal antibodies. *Dev. & Comp. Immunology* 29: 733 -748.

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5. Patole, P. *et al.* (2006) Expression and regulation of Toll-like receptors in lupus-like immune complex glomerulonephritis of MRL-Fas(lpr) mice. *Nephrol. Dial. Transplant* 21: 3062-3073.
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7. Osorio, Y. *et al.* (2011) Identification of small molecule lead compounds for visceral leishmaniasis using a novel ex vivo splenic explant model system. *PLoS Negl Trop Dis.* 5:e962.
8. Flatz, L. *et al.* (2011) T cell-dependence of Lassa fever pathogenesis. *PLoS Pathog.* 6: e1000836.
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