



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 Data Sheet

MOUSE ANTI HUMAN RYANODINE RECEPTOR

With HRP-conjugated Secondary Antibody

Catalog No.	Species	Isotype
DS-MB-02278	Human	IgG _{2b}

Preparation

Immunogen: Short synthetic polypeptide corresponding to the C-terminal domain of the ryanodine receptor.

Specificity

This product reacts with the C-terminus cytoplasmic domain of ryanodine receptor. Ryanodine receptors have been shown to play critical roles in the intracellular Ca²⁺ signaling occurring during cell activation in muscle cells and non-muscle cells. OBT1818 reacts with ryanodine receptor (MW approx. 500kDa) isolated from a variety of cell types (e.g. lymphocytes, macrophages, granulocytes, fibroblasts, epithelial, endothelial cells, skeletal muscle, cardiac muscle and brain tissues).

Species Cross Reactivity: Reacts with: Bovine, Dog, Mouse, Pig, Rat
Antibody reactivity and working conditions may vary between species.

Formulation

Product Type: Monoclonal Antibody
Product Form: Purified IgG - liquid
Buffer Solution: Phosphate buffered saline
Preservative Stabilizers: 0.09% Sodium azide

Storage

18 months from date of dispatch.
Store at +4°C or at -20°C if preferred. Storage in frost-free freezers is not recommended.
This product should be stored undiluted. Should this product contain a precipitate we recommend microcentrifugation before use.

Avoid repeated freezing and thawing as this may denature the antibody.
Centrifuge before opening to ensure complete recovery of vial contents.

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



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Applications

Table Summary of antibody applications and working conditions

Options / Functions	YES	NO	Not determined	Recommended Work dilution or concentration
ELISA	•			1:1000
Immunoblotting	•			1:100
Immunohistology – frozen(*)	•			1:100
Immunohistology – paraffin (3)			•	
Immunohistology - resin			•	
Immunoprecipitation			•	
Flow Cytometry	•			1:500
Immunofluorescence staining	•			1:100
Neutralization			•	

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

(*)Use indirect immunofluorescence. Visualization by confocal microscopy is required, as detection by standard fluorescent microscopy will not be adequate to detect the RyR. Additionally, fluorescent, not enzymatic, detection is required. Due to the intensity of confocal lasers, use of an anti-fading agent, such as DABCO, is strongly recommended.

Secondary Antibody Applications

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

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