



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 BETA ENDORPHIN

With HRP-conjugated secondary antibody

Catalog No.
DS-MB-01203

Species:
Human

Isotype:
Mouse IgG1

Description

Beta-endorphin is an endogenous opioid peptide neurotransmitter found in the neurons of both the central and peripheral nervous system. Pro-opiomelanocortin (POMC) is a precursor hormone of the pituitary gland that undergoes enzymatic cleavage to yield active ligands for melanocortin receptors. These active ligands include β -endorphin and Met-enkephalin.

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	•			
Immunohistology - paraffin			•	
Immunohistology - resin			•	
Immunoprecipitation			•	
Flow Cytometry			•	
Immunofluorescence staining	•			
Neutralization			•	

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

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



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Preparation

Immunogen was recombinant protein derived from native human beta endorphins. 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 was purified by Protein A affinity chromatography.

Reconstitution

Supplied as 200 µg of purified antibody. It is reconstituted with 200 µl of sterile PBS. Its final concentration is 1.0 mg/ml. **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 -20°C only. Shipped at 4°C and minimize freezing and thawing when use.

Reference

Low, M.J. 2004. Role of proopiomelanocortin neurons and peptides in the regulation of energy homeostasis. J. Endocrinol. Invest. 27: 95-100.

Zhang, Y., et al. 2004. Aged-obese rats exhibit robust responses to a melanocortin agonist and antagonist despite leptin resistance. Neurobiol. Aging 25: 1349-1360.

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