pbl assay science
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Certificate of Analysis

Rat Mab to Mouse Interferon Beta, Clone RMMB-1 (MAb)

Catalog No: 22400-9
Lot No: 7173
Size: 0.2 mg/vial

Description: Rat Monoclonal Antibody against Mouse Interferon Beta
Clone: RMMB-1
Volume: 0.050 ml
Concentration: 4.04 mg/ml
Buffer: 0.3 Sodium Bicarbonate, 0.2 M Sodium Chloride
Antigen: Mouse Interferon Beta
Isotype: $IgG_{2a,\kappa}$
Bioactivity: Weakly neutralizes mouse interferon beta, but not recommended for neutralization assays (for this application products 32400-1 or 32401-1 are recommended); binds to mouse interferon beta

Assay Used to Measure Bioactivity: One neutralization unit is the amount of antiserum required to neutralize one unit of mouse interferon beta (Mu-IFN-β) to a 50% endpoint. Interferon was titrated with the use of the cytopathic effect inhibition assay as described [Rubinstein, S., Familletti, P.C., and Pestka, S. (1981) "Convenient Assay for Interferons," *J. Virol*. 37, 755-758; Familletti, P.C., Rubinstein, S., and Pestka, S. (1981) "A Convenient and Rapid Cytopathic Effect Inhibition Assay for Interferon," in *Methods in Enzymology*, Vol. 78 (S. Pestka, ed.), Academic Press, New York, 387-394]. In this antiviral assay for interferon about 1 unit/ml of interferon is the quantity necessary to produce a cytopathic effect of 50%. The units are determined with respect to the international reference standard for Mu-IFN-β provided by the National Institutes of Health [see Pestka, S. (1986) "Interferon Standards and General Abbreviations," in *Methods in Enzymology* (S. Pestka, ed.), Academic Press, New York 119, 14-23]. This material is prepared specifically for effective neutralization of Mu-IFN-β.

Tested Applications: Direct Binding ELISA

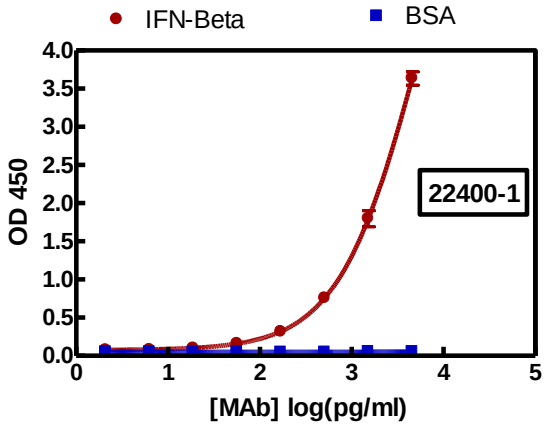

Figure 1. Representative binding curve of antibody to recombinant Mu-IFN-β (circle) and to 1% BSA/PBS (square) in a Direct Binding ELISA. High-binding polystyrene plates were coated with either 1 µg/ml Mu-IFN-β or 1% BSA/PBS. Thereafter, titrations of the product were added to the wells. Donkey anti-rat IgG conjugated to HRP was used as the detection antibody. Colorimetric detection was performed using 3, 3', 5, 5'-Tetramethylbenzidine (TMB) substrate. The HRP-TMB reaction was stopped using a diluted H_2SO_4/HCl solution.

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Note: PBL has not tested the use of this product in western blot, flow cytometry, immunoprecipitation, or immunohistochemistry.

Shipping Conditions: Dry Ice

Physical State of Product During Shipping: Frozen

Storage Conditions/Comments: After receipt, the product may be stored at -20°C for short-term use (≤ 6 months). For long-term storage, we recommend storing the product at -70°C or below for retention of full activity. When thawing, the contents of the tube should be apportioned in separate tubes so that freezing and thawing is kept to a minimum. Refreezing should be done on dry ice or in a dry ice/alcohol bath. Further dilution of the product should be in buffers containing protein such as 0.1% bovine serum albumin (BSA). For more information on protein handling, visit our Resource Library at www.pblassaysci.com.

Authorization

Released by: _____ Date: January 17, 2020

Rev. 01