pbl assay science
131 Ethel Road West, Suite 6 | Piscataway, NJ 08854 USA | T:+1.732.777.9123 | F:+1.732.777.9141 | E: info@pblassaysci.com | W: pblassaysci.com

Certificate of Analysis

Anti-Mouse Interferon Beta, Rabbit Serum (PAb)

Catalog No: 32400-1
Lot No:
Size: ≥ 2 x 10^4 Neutralizing Units/vial

Description: Rabbit polyclonal antibody against Mouse Interferon Beta
Volume: ml
Activity using *E. coli* interferon: x 10 NU/ml
Activity using mammalian interferon: x 10 NU/ml
Concentration: mg/ml (estimate)
Buffer: Neat serum diluted in phosphate buffered saline (PBS)
Antigen: Recombinant mouse interferon beta (mammalian expressed)

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 [Rubinstein, S., Familletti, P.C., and Pestka, S. (1981) *J. Virol*. 37, 755-758] using L929 cells and EMCV as the challenge virus. In this antiviral assay for interferon, about 2.5 unit/ml of interferon is the quantity necessary to produce a cytopathic effect of 50%. The units are determined by use of a laboratory standard calibrated with respect to the international reference standard for Mu-IFN-β provided by the National Institutes of Health [Gb02-902-511]. This material is prepared specifically for effective neutralization of Mu-IFN-β.

Tested Applications: Neutralization
Suggested Applications: ELISA; Western blot; immunoprecipitation; immunohistochemistry
Please note that these applications are presented for suggested use only and have not been fully evaluated by PBL.

Shipping Conditions: Dry ice
Physical State of Product During Shipping: Frozen
Storage Conditions/Comments: After receipt, this product should be kept at -70˚C or below for retention of full activity. Thaw product vial by incubation in cold tap water until just thawed – 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.

Selected References:

(1) Asselin-Paturel *et al.* (*J Exp. Med*, 2005) used 32400 in combination with Rabbit anti-mouse IFN-alpha (32100) to explore the role of Type I IFN in the migration and activation of dendritic cells.
(2) Kamath *et al.* (*J. Immunol*. 2005) used a similar cocktail to demonstrate that dendritic cell derived Type I IFN stimulates bystander T-cells.
(3) Seimon *et al.* (*PNAS*, 2006) used 32400 to examine the role of IFN-Beta in protecting LPS treated macrophages from apoptosis. Zheng *et al.* (*J. Biol. Chem*, 2006) used 32400 to examine the role of autocrine IFN-Beta in RANKL stimulated iNOS expression in macrophages.

Authorization

Released by: _____ Date:

Rev. 04