For Research Use Only

Mouse CD40/TNFRSF5 Recombinant monoclonal antibody, PBS Only (Detector)

Catalog Number:83972-1-PBS

proteintech®
Antibodies | ELISA kits | Proteins
www.ptglab.com

Basic Information

Catalog Number:
83972-1-PBS

Size:
100ug , Concentration: 1 mg/ml by Nanodrop;

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
EG1118

GenBank Accession Number:
NM_011611.2

GeneID (NCBI):
21939

UNIPROT ID:
P27512-1

Full Name:
CD40 antigen

Calculated MW:
32 kDa

Purification Method:
Protein A purification

CloneNo.:
240874A9

Applications

Tested Applications:
Cytometric bead array, Sandwich ELISA, Indirect ELISA, Sample test

Species Specificity:
mouse

Product Information

83972-1-PBS targets CD40/TNFRSF5 as part of a matched antibody pair:

MP00896-1: 83972-2-PBS capture and 83972-1-PBS detection (validated in Cytometric bead array, Sandwich ELISA)

Unconjugated rabbit recombinant monoclonal antibody in PBS only (BSA and azide free) storage buffer at a concentration of 1 mg/mL, ready for conjugation. Created using Proteintech's proprietary in-house recombinant technology. Recombinant production enables unrivalled batch-to-batch consistency, easy scale-up, and future security of supply.

This conjugation ready format makes antibodies ideal for use in many applications including: ELISAs, multiplex assays requiring matched pairs, mass cytometry, and multiplex imaging applications.Antibody use should be optimized by the end user for each application and assay.

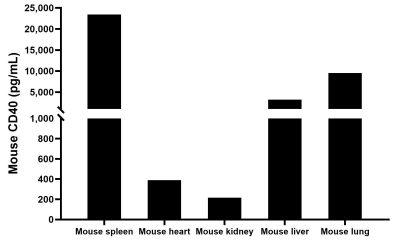
Storage

Storage:
Store at -80°C.
Storage Buffer:
PBS only, pH7.3

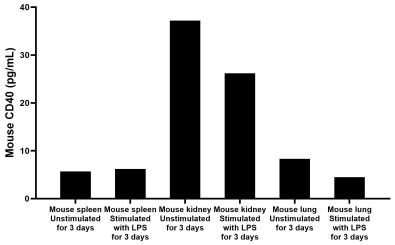
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

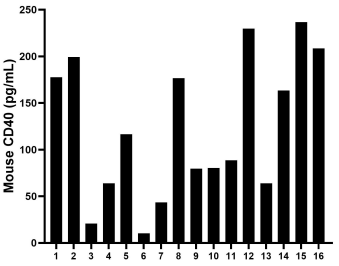
Selected Validation Data



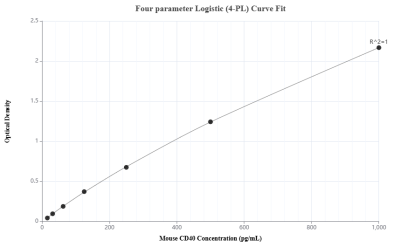
The mean CD40 concentration was determined to be 23,443.1 pg/mL in mouse spleen tissue extract based on a 3.0 mg/mL extract load, 390.2 pg/mL in mouse heart tissue extract based on a 11.2 mg/mL extract load, 216.2 pg/mL in mouse kidney tissue extract based on a 1.5 mg/mL extract load, 3,196.8 pg/mL in mouse liver tissue extract based on a 3.0 mg/mL extract load and 9,508.1 pg/mL in mouse lung tissue extract based on a 3.0 mg/mL extract load.



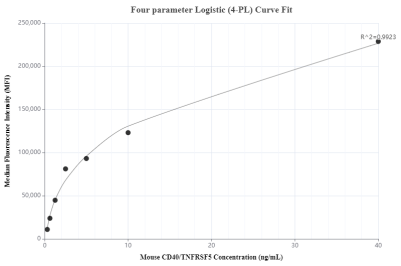
Mouse spleen tissue, mouse kidney tissue and mouse lung tissue was cultured for 3 days in RPMI supplemented with 10% fetal bovine serum, 5 µM β-mercaptoethanol, 2 mM L-glutamine, 100 U/mL penicillin, 100 µg/mL streptomycin sulfate, and stimulated with 1 µg/mL LPS. The mean CD40 concentration was determined to be 5.7 pg/mL, 37.2 pg/mL and 8.3 pg/mL in unstimulated mouse spleen tissue, mouse kidney tissue and mouse lung tissue



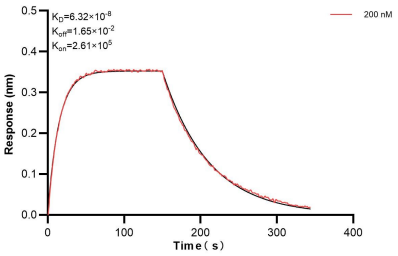
Serum of sixteen mice was measured. The mouse CD40 concentration of detected samples was determined to be 122.5 pg/mL with a range of 10.4 - 236.8 pg/mL



Sandwich ELISA standard curve of MP00896-1, Mouse CD40 Recombinant Matched Antibody Pair - PBS only. 83972-2-PBS was coated to a plate as the capture antibody and incubated with serial dilutions of standard Eg1118. 83972-1-PBS was HRP conjugated as the detection antibody. Range: 15.6-1000 pg/mL



Cytometric bead array standard curve of MP00896-1, MOUSE CD40 Recombinant Matched Antibody Pair, PBS Only. Capture antibody: 83972-2-PBS. Detection antibody: 83972-1-PBS. Standard: Eg1118. Range: 0.313- 40 ng/mL



Biolayer interferometry (BLI) kinetic assay of 83972-1-PBS against Mouse CD40/TNFRSF5 was performed. The affinity constant is 63.2 nM.