For Research Use Only

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

Catalog Number:83972-1-PBS

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Antibodies | ELISA kits | Proteins
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Basic Information

Catalog Number:
83972-1-PBS

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

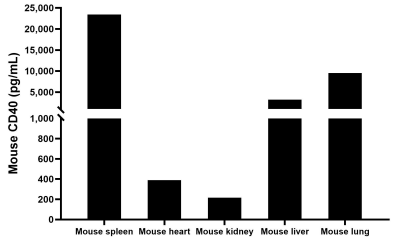
Species Specificity:
mouse

Background Information

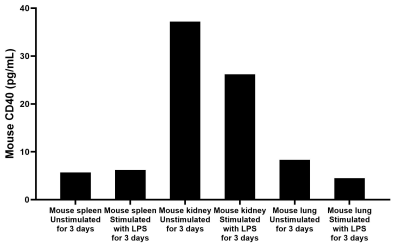
Storage

Storage:
Store at -80°C.
The product is shipped with ice packs. Upon receipt, store it immediately at -80°C
Storage Buffer:
PBS only, pH7.3

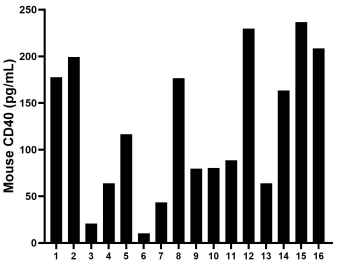
Selected Validation Data



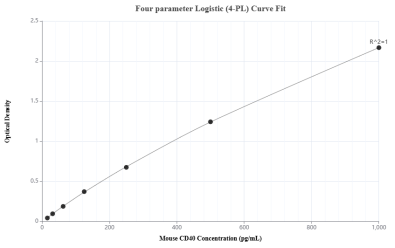
The mean CD40 concentration was determined to be 23,443.1 pg/mL in mouse spleen tissue extract based on a 3.0 mg/mL extract load, 390.2 pg/mL in mouse heart tissue extract based on a 11.2 mg/mL extract load, 216.2 pg/mL in mouse kidney tissue extract based on a 1.5 mg/mL extract load, 3,196.8 pg/mL in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



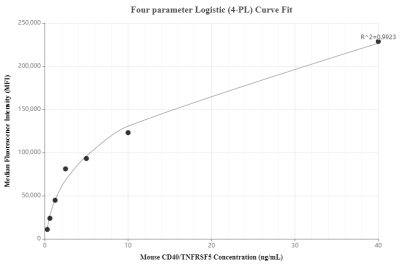
Mouse spleen tissue, mouse kidney tissue and mouse lung tissue was cultured for 3 days in RPMI supplemented with 10% fetal bovine serum, 5 μM β-mercaptoethanol, 2 mM L-glutamine, 100 U/mL penicillin, 100 μg/mL streptomycin sulfate, and stimulated with 1 μg/mL LPS. The mean CD40 concentration was determined 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 supernatant, 6.2 pg/mL, 26.2 pg/mL and



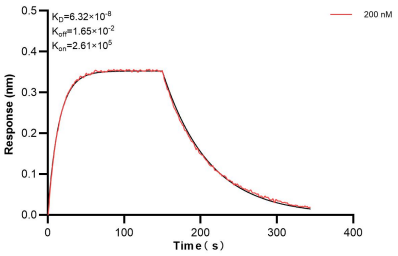
Serum of sixteen mice was measured. The mouse CD40 concentration of detected samples was determined to be 122.5 pg/mL with a range of 10.4 - 236.8 pg/mL.



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.