

Pon3 Recombinant monoclonal antibody

Catalog Number: 86577-1-RR

Basic Information

Catalog Number:

86577-1-RR

Concentration:

1000 µg/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

EG2743

GenBank Accession Number:

NM_173006.1

GeneID (NCBI):

269823

UNIPROT ID:

Q62087

Full Name:

paraoxonase 3

Calculated MW:

39 kDa

Observed MW:

40 kDa

Purification Method:

Protein A purification

CloneNo.:

251535H2

Recommended Dilutions:

WB: 1:5000-1:50000

Applications

Tested Applications:

WB, ELISA

Species Specificity:

mouse, rat

Positive Controls:

WB : mouse kidney tissue, rat kidney tissue, mouse spleen tissue

Background Information

PON3 (paraoxonase 3) is a member of the paraoxonase gene family and shares high homology with PON1 and PON2. The PON3 protein is primarily synthesized by the liver and can bind to high-density lipoprotein (HDL), where it exerts antioxidant functions. PON3 can prevent the oxidation of low-density lipoprotein (LDL) and disrupt bacterial quorum-sensing molecules. Additionally, PON3 is expressed in mouse models of Alzheimer's disease (AD), with positive staining for PON3 detected in astrocytes surrounding A β plaques. These findings suggest that PON3 plays an important role in antioxidant stress and lipid peroxidation and may have potential protective effects on pathological processes such as neurodegenerative diseases and atherosclerosis.

Storage

Storage:

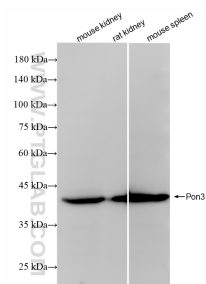
Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 86577-1-RR (Pon3 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.