For Research Use Only

ATP6 Monoclonal antibody

Catalog Number:68442-1-Ig 1 Publications

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Basic Information

Catalog Number:
68442-1-Ig

Size:
1000 μg/ml

Source:
Mouse

Isotype:
IgG1

Immunogen Catalog Number:
AG31940

GenBank Accession Number:
YP_003024031

GeneID (NCBI):
4508

UNIPROT ID:
P00846

Full Name:
ATP synthase 6; ATPase subunit 6

Calculated MW:
25 kDa

Observed MW:
25-30 kDa

Purification Method:
Protein G purification

CloneNo.:
1H4G5

Recommended Dilutions:
WB 1:5000-1:50000

Applications

Tested Applications:
WB, ELISA

Cited Applications:
WB

Species Specificity:
Human, Rat

Cited Species:
rat

Positive Controls:

WB : rat cerebellum tissue, Rat heart tissue, Rat liver tissue

Background Information

ATP synthase, also known as FoF1 complex, is a critical mitochondrial OXPHOS enzyme involved in the regulation of mitochondrial ATP production and in the maintenance of the mitochondrial membrane potential. It is composed of three components (F1, Fo and the peripheral stalk). F1, the soluble catalytic core, is above the membrane, inside the matrix of the mitochondria; consists of 5 different subunits (alpha, beta, gamma, delta, and epsilon); Fo, comprising the proton channel, is within the membrane; Fo seems to have nine subunits (a, b, c, d, e, f, g, F6 and 8). ATP6 is the a subunit of Fo region.

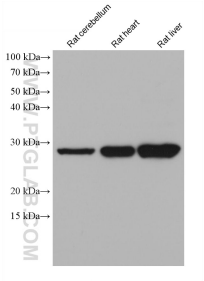
Notable Publications

Author	Pubmed ID	Journal	Application
Zhiyuan Tian	38677116	J Hazard Mater	WB

Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 68442-1-Ig (ATP6 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.