

DUPD1 / DUSP27 Polyclonal antibody

Catalog Number: 25259-1-AP

Basic Information

Catalog Number:

25259-1-AP

Size:

500 µg/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG19658

GenBank Accession Number:

BC137322

GeneID (NCBI):

338599

UNIPROT ID:

Q68J44

Full Name:

dual specificity phosphatase and pro isomerase domain containing 1

Calculated MW:

220 aa, 25 kDa

Observed MW:

27 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:2000

Applications

Tested Applications:

WB, ELISA

Species Specificity:

human, mouse, rat

Positive Controls:

WB: mouse skeletal muscle tissue, rat skeletal muscle tissue

Background Information

Dupd1 also named as Dusp27, has been categorized as an atypical dual-specificity phosphatase (Dusp) capable of dephosphorylating both tyrosine and serine/threonine residues. It's involved in the modulation of intracellular signaling cascades. In skeletal muscle Dupd1 regulates systemic glucose homeostasis by activating AMPK, which is an energy sensor protein kinase. Dupd1 also affects MAP kinase signaling through modulation of the MAPK1/2 cascade in skeletal muscle promoting muscle cell differentiation, development and atrophy.

Storage

Storage:

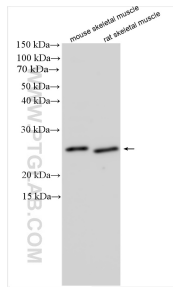
Store at -20°C. Stable for one year after shipment.

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 25259-1-AP (DUPD1 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.