For Research Use Only

Phospho-P62/SQSTM1 (Ser349) Recombinant antibody

Catalog Number:80294-2-RR

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Basic Information

Catalog Number:
80294-2-RR

Concentration:
1000 μg/ml

Source:
Rabbit

Isotype:
IgG

GenBank Accession Number:
BC017222

GeneID (NCBI):
8878

UNIPROT ID:
Q13501

Full Name:
sequestosome 1

Calculated MW:
48 kDa

Observed MW:
62 kDa

Purification Method:
Protein A purification

CloneNo.:
250277E9

Recommended Dilutions:
WB: 1:500-1:2000

Applications

Tested Applications:
WB, ELISA

Species Specificity:
human, mouse

Positive Controls:

WB : sodium arsenite treated HEK-293 cells, MG132 treated NIH/3T3 cells

Background Information

Sequestosome 1 (SQSTM1/p62) is a multifunctional adaptor protein implicated in selective autophagy, cell signaling pathways, and tumorigenesis. It functions as a bridge between polyubiquitinated cargo and autophagosomes (PMID:16286508). SQSTM1 is at the cross-roads of several signaling pathways including Keap1-Nrf2 pathway , NF κ B pathway , NFE2L2/NRF2 pathway , mTOR pathway and Wnt pathway. Phosphorylation and/or de-phosphorylation of p62-Ser349 may participate in the regulation of both selective autophagy and oxidative stress response (PMID: 33397898).

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

For technical support and original validation data for this product please contact:
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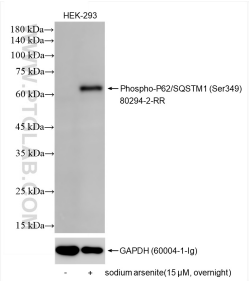
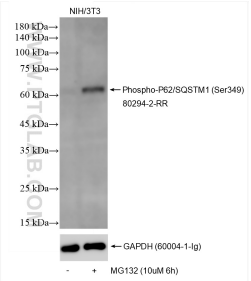
Selected Validation Data



Non-treated HEK-293 cells and sodium arsenite treated HEK-293 cells were subjected to SDS PAGE followed by western blot with 80294-2-RR (Phospho-P62/SQSTM1 (Ser349) antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Non-treated NIH/3T3 cells and MG132 treated NIH/3T3 cells were subjected to SDS PAGE followed by western blot with 80294-2-RR (Phospho-P62/SQSTM1 (Ser349) antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours. The membrane was stripped and re-blotted with GAPDH (60004-1-Ig) antibody as a loading control.