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Anti-Phospho-p62 (Ser28) SQSTM1 Antibody

Catalog Number: P00300-1

About SQSTM1

p62, also known as sequestosome1 (SQSTM1), is a shuttle protein transporting polyubiquitinated proteins for both proteasomal and lysosomal degradation. p62 is an integral component of inclusions in brains of various neurodegenerative disorders, including Alzheimer disease (AD) neurofibrillary tangles (NFTs) and Lewy bodies in Parkinson disease (Nogalaska et al., 2009). p62 plays an important role in the protection of cells from the toxicity of misfolded proteins by enhancing aggregate formation especially in the later stages (Nakaso et al., 2004). Phosphorylation of Ser-28 has recently been demonstrated to be related to the pathogenesis of Parkinson's disease.

Overview

Product Name	Anti-Phospho-p62 (Ser28) SQSTM1 Antibody
Reactive Species	Human
Description	Boster Bio Anti-Phospho-p62 (Ser28) SQSTM1 Antibody (Catalog # P00300-1). Tested in WB applications. This antibody reacts with Human.
Application	WB
Clonality	Polyclonal
Formulation	10 mM HEPES (pH 7.5), 150 mM NaCl, 100 µg per ml BSA and 50% glycerol.
Storage Instructions	Storage at -20°C is recommended, as aliquots may be taken without freeze/thawing due to presence of 50% glycerol. Stable for at least 1 year at -20°C. After date of receipt, stable for at least 1 year at -20°C.
Host	Rabbit
Uniprot ID	Q13501

Technical Details

Immunogen	Synthetic phospho-peptide corresponding to amino acid residues surrounding Ser28 of human p62, conjugated to keyhole limpet hemocyanin (KLH). Immunogen species is Human.
Predicted Reactive Species	Primate
Isotype	IgG
Form	Liquid
Concentration	0.5-1mg/ml, actual concentration vary by lot. Use suggested dilution ratio to decide dilution procedure.
Purification	Prepared from pooled rabbit serum by affinity purification via sequential chromatography on phospho and non-phosphopeptide affinity columns.

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Suggested Dilutions	Dilute the sample so that the expected range of concentrations fall within the detection range of this kit. If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples. Some PubMed article(s) citing the expression level of this target are as follows: Boster Bio's internal QC testing used: WB: 1:1000

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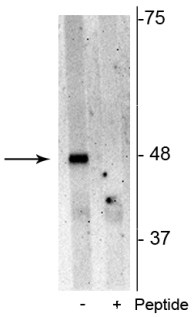
Anti-Phospho-p62 (Ser28) SQSTM1 Antibody (P00300-1) Images



Western blot of Jurkat cell lysate showing specific immunolabeling of the ~48 kDa p62 phosphorylated at Ser^{28} in the first lane (-). Phosphospecificity is shown in the second lane (+) where immunolabeling is blocked by preadsorption of the phosphopeptide used as antigen, but not by the corresponding non-phosphopeptide (not shown).

1 Publications Citing This Product

1. PubMed ID: 31900522, Song L,Yao L,Zhang L,Piao Z,Lu Y.Schizandrol A protects against Abeta1-42-induced autophagy via activation of PI3K/AKT/mTOR pathway in SH-SY5Y cells and primary hippocampal neurons.Naunyn Schmiedebergs Arch Pharmacol.2020 Sep;393(9):1739-1752.doi:10.1007/s00

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