P62/SQSTM1 Ab

Cat.#: AF5384  
Concn.: 1mg/ml  
Mol.Wt.: 62 kDa

Size: 100ul,200ul  
Source: Rabbit  
Clonality: Polyclonal


Reactivity: Human,Mouse,Rat

Purification: The antiserum was purified by peptide affinity chromatography using SulfoLink™ Coupling Resin (Thermo Fisher Scientific).

Specificity: P62/SQSTM1 Ab detects endogenous levels of total P62/SQSTM1.


Uniprot: Q13501

Description: Adapter protein which binds ubiquitin and may regulate the activation of NFKB1 by TNF-alpha, nerve growth factor (NGF) and interleukin-1. May play a role in titin/TTN downstream signaling in muscle cells. May regulate signaling cascades through ubiquitination. Adapter that mediates the interaction between TRAF6 and CYLD (By similarity). May be involved in cell differentiation, apoptosis, immune response and regulation of K(+) channels.

Subcellular Location: Cytoplasm. Late endosome. Nucleus. Sarcomere (By similarity). In cardiac muscles localizes to the sarcomeric band (By similarity). Localizes to late endosomes. May also localize to the nucleus. Accumulates in neurofibrillary tangles and in Lewy bodies of neurons from individuals with Alzheimer and Parkinson disease respectively. Enriched in Rosenthal fibers of pilocytic astrocytoma. In liver cells, accumulates in Mallory bodies associated with alcoholic hepatitis, Wilson disease, Indian childhood cirrhosis and in hyaline bodies associated with hepatocellular carcinoma.

Tissue Specificity: Ubiquitously expressed.

Similarity: The UBA domain binds specifically 'Lys-63'-linked polyubiquitin chains of polyubiquitinated substrates. Mediates the interaction with TRIM55. Both the UBA and PB1 domains are necessary and sufficient for the localization into the ubiquitin-containing inclusion bodies. The PB1 domain mediates homooligomerization and interactions with FHOD3, MAP2K5, NBR1, PRKCI, PRK CZ and WDR81. Both the PB1 and UBA domains are necessary and sufficient for the localization into the ubiquitin-containing inclusion bodies.
ZZ-type zinc finger mediates the interaction with RIPK1. The LIR (LC3-interacting region) motif mediates the interaction with ATG8 family proteins.

**Storage Condition and Buffer:**
Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM sodium chloride, 0.02% sodium azide and 50% glycerol. Store at -20°C. Stable for 12 months from date of receipt.

Western blot analysis of extracts from various samples, using P62/SQSTM1 Ab.
- Lane 1: Myeloma cells treated with blocking peptide;
- Lane 2: Myeloma cells;
- Lane 3: HUVEC.

Western blot analysis of extracts from HepG2, using P62/SQSTM1 Ab. Lane 1 was treated with the blocking peptide.

Western blot analysis of P62/SQSTM1 expression in various lysates

Western blot analysis of extracts from various samples, using P62/SQSTM1 Ab.

AF5384 staining A549 cells by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25°C. The primary Ab was diluted at 1/200 and incubated with the sample for 1 hour at 37°C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab (Red), diluted at 1/600, was used as secondary Ab.
**IMPORTANT:** For western blot, incubate membrane with diluted primary Ab in 5% w/v milk, 1X TBS, 0.1% Tween®20 at 4°C with gentle shaking, overnight.