

Product datasheet for **TA306861**

SQSTM1 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	ELISA, IF, IHC, WB
Recommended Dilution:	WB: 0.5-2 µg/mL; IF: 20 µg/mL; IHC: 2-5 µg/mL; Antibody validated: Western Blot in human and mouse samples; Immunofluorescence and Immunohistochemistry in human, mouse and rat samples. All other applications and species not yet tested.
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	SQSTM1 antibody was raised against a 14 amino acid synthetic peptide from near the carboxy terminus of human SQSTM1. The immunogen is located within the last 50 amino acids of SQSTM1.
Formulation:	PBS containing 0.02% sodium azide.
Purification:	SQSTM1 Antibody is affinity chromatography purified via peptide column.
Conjugation:	Unconjugated
Storage:	Antibody can be stored at 4°C up to one year. Antibodies should not be exposed to prolonged high temperatures.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	sequestosome 1
Database Link:	NP_001135770 Entrez Gene 18412 Mouse Entrez Gene 113894 Rat Entrez Gene 8878 Human Q13501



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Background:

SQSTM1/p62 is an adapter protein which binds ubiquitin and regulates signaling cascades through ubiquitination. It may regulate the activation of NF-kappaB by TNF-alpha, nerve growth factor (NGF) and interleukin-1. SQSTM1/p62, a co-interacting protein of the atypical PKC isoforms, has a UBA domain at its C-terminal end, which binds non-covalently to polyubiquitin chain. SQSTM1's UBA domain is necessary for recruitment of polyubiquitin and aggresome formation. SQSTM1 may play a role in titin/TTN downstream signaling in muscle cells and may be involved in cell differentiation, apoptosis, immune response and regulation of K⁺ channels. Mutations in the ubiquitin-associated (UBA) domain of SQSTM1 commonly cause Paget's disease of bone since the UBA is necessary for aggregate sequestration and cell survival.

Synonyms:

A170; OSIL; p60; p62; p62B; PDB3; ZIP3

Protein Families:

Druggable Genome, Transcription Factors