Datasheet for ABIN6263985
anti-SQSTM1 antibody (C-Term)

Overview

<table>
<thead>
<tr>
<th>Quantity:</th>
<th>100 μL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Target:</td>
<td>SQSTM1</td>
</tr>
<tr>
<td>Binding Specificity:</td>
<td>C-Term</td>
</tr>
<tr>
<td>Reactivity:</td>
<td>Human, Mouse, Rat</td>
</tr>
<tr>
<td>Host:</td>
<td>Rabbit</td>
</tr>
<tr>
<td>Clonality:</td>
<td>Polyclonal</td>
</tr>
<tr>
<td>Conjugate:</td>
<td>This SQSTM1 antibody is un-conjugated</td>
</tr>
<tr>
<td>Application:</td>
<td>Western Blotting (WB), Immunohistochemistry (IHC), ELISA, Immunofluorescence (IF), Immunocytochemistry (ICC)</td>
</tr>
</tbody>
</table>

Product Details

<table>
<thead>
<tr>
<th>Immunogen:</th>
<th>A synthesized peptide derived from human SQSTM1/p62, corresponding to a region within C-terminal amino acids.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Isotype:</td>
<td>IgG</td>
</tr>
<tr>
<td>Specificity:</td>
<td>SQSTM1/p62 Antibody detects endogenous levels of total SQSTM1/p62.</td>
</tr>
<tr>
<td>Predicted Reactivity:</td>
<td>Pig,Zebrafish,Bovine,Horse,Sheep,Rabbit,Chicken</td>
</tr>
<tr>
<td>Purification:</td>
<td>The antiserum was purified by peptide affinity chromatography using SulfoLink™ Coupling Resin (Thermo Fisher Scientific).</td>
</tr>
</tbody>
</table>

Target Details

| Target: | SQSTM1 |

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### Target Details

**Alternative Name:** SQSTM1 (SQSTM1 Products)

**Background:**
Description: Autophagy receptor required for selective macroautophagy (aggrephagy). Functions as a bridge between polyubiquitinated cargo and autophagosomes. Interacts directly with both the cargo to become degraded and an autophagy modifier of the MAP1 LC3 family (PubMed:16286508, PubMed:20168092, PubMed:24128730, PubMed:28404643, PubMed:22622177). Along with WDFY3, involved in the formation and autophagic degradation of cytoplasmic ubiquitin-containing inclusions (p62 bodies, ALIS/aggresome-like induced structures). Along with WDFY3, required to recruit ubiquitinated proteins to PML bodies in the nucleus (PubMed:24128730, PubMed:20168092). 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. Involved in endosome organization by retaining vesicles in the perinuclear cloud: following ubiquitination by RNF26, attracts specific vesicle-associated adapters, forming a molecular bridge that restrains cognate vesicles in the perinuclear region and organizes the endosomal pathway for efficient cargo transport (PubMed:27368102).

**Gene:** SQSTM1

**Molecular Weight:** 62 kDa

**Gene ID:** 8878

**UniProt:** Q13501

**Pathways:** NF-kappaB Signaling, Neurotrophin Signaling Pathway, Autophagy

### Application Details

**Application Notes:** WB 1:500-1:2000, IF/ICC 1:100-1:500, IHC 1:50-1:200, ELISA(peptide) 1:20000-1:40000

**Restrictions:** For Research Use only

### Handling

**Format:** Liquid

**Concentration:** 1 mg/mL

**Buffer:** Rabbit IgG in phosphate buffered saline, pH 7.4, 150 mM NaCl, 0.02 % sodium azide and 50 % glycerol.
Handling

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: -20 °C

Storage Comment: Store at -20 °C. Stable for 12 months from date of receipt.

Expiry Date: 12 months

Publications


Images

Western Blotting

Image 1. Western blot analysis of P62/SQSTM1 expression in various lysates
Images

**Western Blotting**

**Image 2.** Western blot analysis of P62/SQSTM1 expression in HeLa. The lane on the left is treated with the antigen-specific peptide.

**Immunofluorescence (fixed cells)**

**Image 3.** ABIN6268931 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 antibody 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) antibody (Cat. # S0006), diluted at 1/600, was used as secondary antibody.

Please check the **product details page** for more images. Overall 5 images are available for ABIN6263985.