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DATA SHEET

# Mouse Anti-p62/SQSTM1 [MD61]: MC0012

**Intended Use:** For Research Use Only

**Description:** Adapter protein Sequestosome 1 (SQSTM1, p62) is an ubiquitin binding protein involved in cell signaling, oxidative stress, and autophagy. It 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. Defects in SQSTM1 are a cause of Paget disease of bone (PDB). PDB is a metabolic bone disease affecting the axial skeleton and characterized by focal areas of increased and disorganized bone turn-over due to activated osteoclasts. Manifestations of the disease include bone pain, deformity, pathological fractures, deafness, neurological complications and increased risk of osteosarcoma.

**Specifications**

| | |
|---|---|
| Clone: | MD61 |
| Source: | Mouse |
| Isotype: | IgG1 |
| Localization: | Cytoplasm |
| Formulation: | Antibody in PBS pH7.4, containing BSA and ≤ 0.09% sodium azide (NaN3) |
| Storage: | Store at 2°- 8°C |
| Applications: | IHC, ICC/IF, IP, WB |

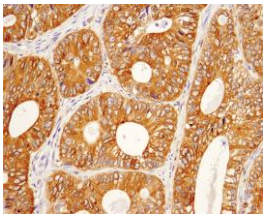
Package:

| Description | Catalog No. | Size |
|---|---|---|
| p62/SQSTM1 Concentrated | MC0012 | 1 ml |

**IHC Procedure***

| | |
|---|---|
| Positive Control Tissue: | Lymph node |
| Concentrated Dilution: | 25-100 |
| Pretreatment: | Citrate pH6.0 or EDTA pH8.0, 15 minutes using Pressure Cooker, or 30-60 minutes using water bath at 95°-99°C |
| Incubation Time and Temp: | 30-60 minutes @ RT |
| Detection: | Refer to the detection system manual |

* Result should be confirmed by an established diagnostic procedure.



FFPE human colon carcinoma stained with anti-p62 using DAB

**References:**


1. Neoadjuvant administration of hydroxychloroquine in a phase 1 clinical trial induced plasma Par-4 levels and apoptosis in diverse tumors. Wang, P., Burikhanov, R., et al. In Genes & Cancer on 1 May 2018.
2. Effect of bis(hydroxymethyl) alkanoate curcuminoid derivative MTH-3 on cell cycle arrest, apoptotic and autophagic pathway in triple-negative breast adenocarcinoma MDA-MB-231 cells: An in vitro study. Chang, L. C., Hsieh, M. T., et al. In International Journal of Oncology on 1 January 2018.





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