**SQSTM1 (D-3): sc-28359**

**BACKGROUND**

The chronic focal skeletal disorder, Paget’s disease of bone, affects 2-3% of the population over the age of 60 years. Paget’s disease is characterized by increased bone resorption by osteoclasts, followed by abundant new bone formation that is of poor quality. The disease leads to several complications including bone pain and deformities, as well as fissures and fractures. Mutations in the ubiquitin-associated (UBA) domain of the Sequestosome 1 protein (SQSTM1), also designated p62 or ZIP, commonly cause Paget’s disease since the UBA is necessary for aggregate sequestration and cell survival.

**CHROMOSOMAL LOCATION**

Genetic locus: SQSTM1 (human) mapping to 5q35.3.

**SOURCE**

SQSTM1 (D-3) is a mouse monoclonal antibody raised against amino acids 151-440 of SQSTM1 of human origin.

**PRODUCT**

Each vial contains 200 μg IgG, kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

SQSTM1 (D-3) is available conjugated to agarose (sc-28359 AC), 500 μg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-28359 HRP), 200 μg/ml, for WB, HICP and ELISA; to either phycoerythrin (sc-28359 PE), fluorescein (sc-28359 FITC), Alexa Fluor® 488 (sc-28359 AF488), Alexa Fluor® 546 (sc-28359 AF546), Alexa Fluor® 594 (sc-28359 AF594) or Alexa Fluor® 647 (sc-28359 AF647), 200 μg/ml, for WB (RGB), IF, HICP and FCM; and to either Alexa Fluor® 680 (sc-28359 AF680) or Alexa Fluor® 790 (sc-28359 AF790), 200 μg/ml, for Near-Infrared (NIR) WB, IF and FCM.

Alexa Fluor® is a trademark of Molecular Probes, Inc., Oregon, USA.

**APPLICATIONS**

SQSTM1 (D-3) is recommended for detection of SQSTM1 of human origin by Western blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μg per 100-500 μg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:100-1:500), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:100-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000). Suitable for use as control antibody for SQSTM1 siRNA (h): sc-29679, SQSTM1 shRNA Plasmid (h): sc-29679-SH and SQSTM1 shRNA (h) Lentiviral Particles: sc-29679-V.

Molecular Weight of SQSTM1: 65 kDa.

Positive Controls: HeLa whole cell lysate: sc-2200, SK-LMS-1 cell lysate: sc-3813 or MDA-MB-231 cell lysate: sc-2232.

**STORAGE**

Store at 4°C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

**RESEARCH USE**

For research use only, not for use in diagnostic procedures.

**DATA**

**SELECT PRODUCT CITATIONS**


**PROTOCOLS**

See our web site at www.scbt.com for detailed protocols and support products.