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Product datasheet

Recombinant Human SQSTM1 / p62 protein ab95320

1 Image

Overview

Product name	Recombinant Human SQSTM1 / p62 protein
Protein length	Protein fragment

Description

Nature	Recombinant
Source	Escherichia coli

Amino Acid Sequence

Species	Human
Sequence	MAMSYVKDDI FRIYIKEKKE CRRDHRPPCA QEAPRNMVHP NVICDGCNGP VVGTRYKCSV CPDYDLCSVC EGKGLHRGHT KLAFPSPFGH LSEGFSHSRW LRKVKHGHFG WPGWEMGPPG NWSPRPPRAG EARPGPTAES ASGPSEDPSV NFLKNVGESV AAALSPLGIE VDIDVEHGGK RSRLTPVSPE SSSTEEKSSS QPSSCCSDPS KPGGNVEGAT QSLAEQMRKI ALESEGRPEE QMESDNCSGG DDDWTHLSSK EVDPSTGELQ SLQMPESEGP SSLDPSQEGP TGLKEAALYP HLPPEADPRL IESLSQMLSM GFSDEGGWLT RLLQTKNYDI GAALDTIQYS KHPPPLLEHH HHHH
Amino acids	1 to 356

Specifications

Our Abpromise guarantee covers the use of **ab95320** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	SDS-PAGE Mass Spectrometry
Purity	> 90 % SDS-PAGE. ab95320 is purified using conventional chromatography techniques
Form	Liquid

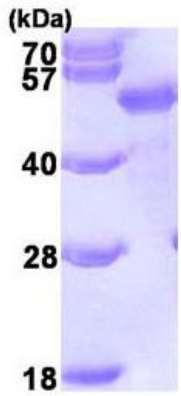
Preparation and Storage

Stability and Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles. Preservative: None Constituents: 10% Glycerol, 20mM Tris HCl, 1mM DTT, pH 8.0

General Info

Function	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.
Tissue specificity	Ubiquitously expressed.
Involvement in disease	Defects in SQSTM1 are a cause of Paget disease of bone (PDB) [MIM:602080]. 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. PDB is a chronic disease affecting 2 to 3% of the population above the age of 40 years.
Sequence similarities	Contains 1 OPR domain. Contains 1 UBA domain. Contains 1 ZZ-type zinc finger.
Domain	The UBA domain binds specifically 'Lys-63'-linked polyubiquitin chains of polyubiquitinated substrates. Mediates the interaction with TRIM55. The OPR domain mediates homooligomerization and interactions with PRKCZ, PRKCI, MAP2K5 and NBR1. The ZZ-type zinc finger mediates the interaction with RIPK1.
Post-translational modifications	Phosphorylated. May be phosphorylated by PRKCZ (By similarity). Phosphorylated in vitro by TTN.
Cellular localization	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.

Images



SDS-PAGE - SQSTM1 / p62 protein (His tag) (ab95320)

ab95320 at 3 µg on an SDS-PAGE gel (15%).

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