abcam

Product datasheet

Recombinant Human SQSTM1 / p62 protein ab132366

1 References 1 Image

Description

Product name	Recombinant Human SQSTM1 / p62 protein
Expression system	Wheat germ
Accession	Q13501
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Human
Sequence	MASLTVKAYLLGKEDAAREIRRFSFCCSPEPEAEAEAAA GPGPCERLLSR VAALFPALRPGGFQAHYRDEDGDLVAFSSDEELTMAMSY VKDDIFRIYIK EKKECRRDHRPPCAQEAPRNMVHPNVICDGCNGPVVGT RYKCSVCPDYDL CSVCEGKGLHRGHTKLAFPSPFGHLSEGFSHSRWLRKV KHGHFGWPGWEM GPPGNWSPRPPRAGEARPGPTAESASGPSEDPSVNFLK NVGESVAAALSP LGIEVDIDVEHGGKRSRLTPVSPESSSTEEKSSSQPSSCC SDPSKPGGNV EGATQSLAEQMRKIALESEGRPEEQMESDNCSGGDDDW THLSSKEVDPST GELQSLQMPESEGPSSLDPSQEGPTGLKEAALYPHLPPE ADPRLIESLSQ MLSMGFSDEGGWLTRLLQTKNYDIGAALDTIQYSKHPPPL
Predicted molecular weight	74 kDa including tags
Amino acids	1 to 440

Specifications

Our **Abpromise guarantee** covers the use of **ab132366** 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
	Western blot

	ELISA
Form	Liquid
Additional notes	

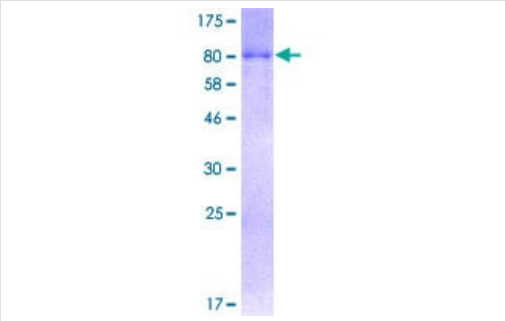
Preparation and Storage

Stability and Storage	Shipped on dry ice. Upon delivery aliquot and store at -80ºC. Avoid freeze / thaw cycles. pH: 8.00 Constituents: 0.31% Glutathione, 0.79% Tris HCl

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 - Recombinant Human SQSTM1 / p62 protein (ab132366)

12.5% SDS-PAGE analysis of ab132366 stained with Coomassie Blue.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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