

Recombinant Anti-SESN1 Rabbit mAb

Catalog # AP95210

Product Information

Application	WB, FC
Primary Accession	Q9Y6P5
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Monoclonal
Calculated MW	56557

Additional Information

Gene ID	27244
Other Names	PA26; SEST1; Sestrin-1; p53-regulated protein PA26
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within human SESN1 protein. The exact sequence is proprietary.
Dilution	WB~~WB (1/500 - 1/1000) FC~~1:10~50
Format	Liquid in PBS, pH 7.3, 50% glycerol, 0.05% BSA, and 0.05% Proclin300.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

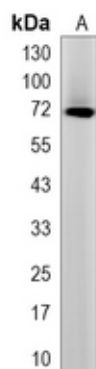
Protein Information

Name	SESN1 (HGNC:21595)
Function	Functions as an intracellular leucine sensor that negatively regulates the TORC1 signaling pathway through the GATOR complex. In absence of leucine, binds the GATOR subcomplex GATOR2 and prevents TORC1 signaling. Binding of leucine to SESN2 disrupts its interaction with GATOR2 thereby activating the TORC1 signaling pathway (PubMed: 25263562 , PubMed: 26449471). This stress-inducible metabolic regulator may also play a role in protection against oxidative and genotoxic stresses (By similarity). May positively regulate the transcription by NFE2L2 of genes involved in the response to oxidative stress by facilitating the SQSTM1-mediated autophagic degradation of KEAP1 (PubMed: 23274085). Moreover, may prevent the accumulation of reactive oxygen species (ROS) through the alkylhydroperoxide reductase activity born by the N-terminal domain of the protein (By similarity). Was originally reported to contribute to oxidative stress resistance by reducing PRDX1 (PubMed: 15105503). However, this could not be confirmed (By similarity).
Cellular Location	Nucleus. Cytoplasm

Tissue Location

Widely expressed..

Images



Western blot analysis of SESN1 expression in K562 (A) whole cell lysates. (Predicted band size: 57 kD; Observed band size: 70 kD)

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