

SESN1 (2D5) Rabbit Monoclonal Antibody

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Catalog # AP93705

Product Information

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

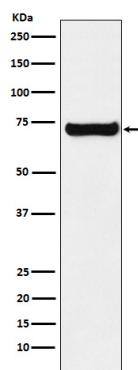
Additional Information

Gene ID	27244
Other Names	Sestrin-1, 1.11.1.-, p53-regulated protein PA26, SESN1 (HGNC:21595)
Dilution	WB~~1:1000 FC~~1:10~50
Storage Conditions	-20°C

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 cell lysate.

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