

# SESN1 (2D5) Rabbit Monoclonal Antibody

SESN1 (2D5) Rabbit Monoclonal Antibody Catalog # AP93705

### **Product Information**

Application WB, FC Primary Accession Q9Y6P5

**Reactivity** Rat, Human, Mouse

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)

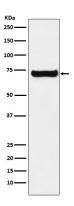
**Function** Functions as an intracellular leucine sensor that negatively regulates the

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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