

SESN1 (2D5) Rabbit Monoclonal Antibody

SESN1 (2D5) Rabbit Monoclonal Antibody Catalog # AP93705

Specification

SESN1 (2D5) Rabbit Monoclonal Antibody - Product Information

Application Primary Accession Reactivity Clonality Calculated MW WB, FC <u>O9Y6P5</u> Rat, Human, Mouse Monoclonal 56557

SESN1 (2D5) Rabbit Monoclonal Antibody - 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

SESN1 (2D5) Rabbit Monoclonal Antibody - 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

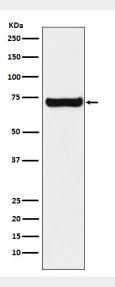
Tissue Location Widely expressed..

SESN1 (2D5) Rabbit Monoclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- <u>Western Blot</u>
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- <u>Cell Culture</u>

SESN1 (2D5) Rabbit Monoclonal Antibody - Images



Western blot analysis of SESN1 expression in K562 cell lysate.