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Anti-SESN1 Rabbit Monoclonal Antibody
Catalog # ABO15883

Specification

Anti-SESN1 Rabbit Monoclonal Antibody - Product Information

Application	**WB, FC**
Primary Accession	Q9Y6P5
Host	**Rabbit**
Isotype	**IgG**
Reactivity	**Rat, Human, Mouse**
Clonality	**Monoclonal**
Format	**Liquid**

Description
Anti-SESN1 Rabbit Monoclonal Antibody . Tested in WB, Flow Cytometry applications. This antibody reacts with Human, Mouse, Rat.

Anti-SESN1 Rabbit Monoclonal Antibody - Additional Information

Gene ID 27244

Other Names
Sestrin-1, 1.11.1.-, p53-regulated protein PA26, SESN1 (HGNC:21595)

Calculated MW
70 kDa KDa

Application Details
WB 1:500-1:2000
FC 1:100

Contents
Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.

Immunogen
A synthesized peptide derived from human SESN1

Purification
Affinity-chromatography

Storage	**Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.**

Anti-SESN1 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..

Anti-SESN1 Rabbit Monoclonal Antibody - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Anti-SESN1 Rabbit Monoclonal Antibody - Images

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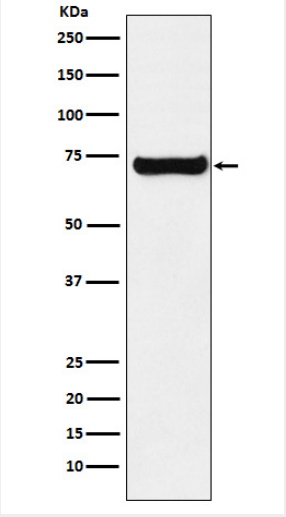

Western blot analysis of SESN1 expression in K562 cell lysate.