

Product Name: SESN1 (2D5) Rabbit Monoclonal Antibody

Catalog #: AMRe17771

For research use only.

Summary

Description Recombinant rabbit monoclonal antibody

Host Rabbit
Application WB,FC

Reactivity Human,Mouse,Rat
Conjugation Unconjugated
Modification Unmodified

Isotype IgG

Clonality Monoclonal
Form Liquid

Concentration 0.5mg/ml. The concentration of this product may be batch-dependent.

Storage Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.

Shipping Ice bags

Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% New type preservative

Buffer N and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw

cycle.

Purification Affinity purification

Application

Dilution Ratio WB 1:1000-1:5000,FC 1:100-1:500

Molecular Weight 57kDa

Antigen Information

Gene Name SESN1

Alternative Names PA26; sesn1; SEST1; sestrin 1;

 Gene ID
 27244.0

 SwissProt ID
 Q9Y6P5

Immunogen A synthetic peptide of human SESN1

Background

Involved in the reduction of peroxiredoxins. May also be regulator of cellular growth. 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).

Research Area

Image Data



Western blot analysis of SESN1 expression in K562 cell lysate.

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