Product Name: SESN2 Rabbit Monoclonal Antibody

Catalog #: AMRe02589



Summary

Production Name SESN2 Rabbit Monoclonal Antibody

Description Recombinant Rabbit Monoclonal antibody

Host Rabbit

Application WB,ICC/IF,IP

Reactivity Human, Mouse, Rat

Performance

ConjugationUnconjugatedModificationUnmodified

Isotype IgG

Clonality Monoclonal Antibody

Form Liquid

Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw Storage

cycles.

50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40% Glycerol, 0.01% Sodium azide and 0.05% **Buffer**

BSA

Purification Affinity Purified

Immunogen

Gene Name SESN2

Alternative Names HI95; SES2; SEST2

 Gene ID
 83667

 SwissProt ID
 P58004

Application

Dilution Ratio WB: 1/500-1/1000 IF: 1/50-1/200 IP: 1/20

Molecular Weight Calculated MW: 54 kDa; Observed MW: 54 kDa

Background

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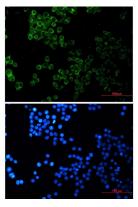


Functions as an intracellular leucine sensor that negatively regulates the TORC1 signaling pathway through the GATOR complex. In absence of leucine, binds the GATOR subcomplex GATOR2 and prevents TORC1 signaling (PubMed:18692468, PubMed:25263562, PubMed:25457612, PubMed:26449471, PubMed:26612684, PubMed:26586190). Binding of leucine to SESN2 disrupts its interaction with GATOR2 thereby activating the TORC1 signaling pathway (PubMed:26449471, PubMed:26586190). This stress-inducible metabolic regulator also plays a role in protection against oxidative and genotoxic stresses. May negatively regulate protein translation in response to endoplasmic reticulum stress, via TORC1 (PubMed:24947615). 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). May also mediate TP53 inhibition of TORC1 signaling upon genotoxic stress (PubMed:18692468). Has an alkylhydroperoxide reductase activity born by the N-terminal domain of the protein (PubMed:26612684). Was originally reported to contribute to oxidative stress resistance by reducing PRDX1 (PubMed:15105503). However, this could not be confirmed (PubMed:19113821).

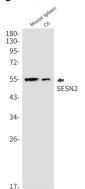
Research Area

Cardiovascular

Image Data



Immunocytochemistry analysis of SESN2 (green) in Hela using SESN2 antibody, and DAPI(blue).



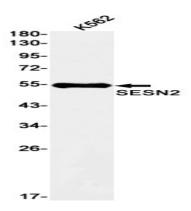
Western blot analysis of SESN2 in mouse spleen, C6 lysates using SESN2 antibody.

Web: https://www.enkilife.com E-mail: order@enkilife.com techsupport@enkilife.com Tel: 0086-27-87002838

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Western blot analysis of SESN2 in K562 lysates using SESN2 antibody

Note

For research use only.