

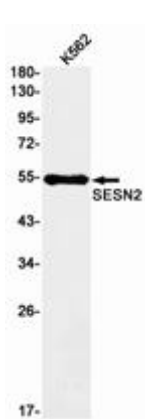
SESN2 RABBIT MAB**Cat.#:** N262885**Product Name:** Anti-SESN2 Rabbit Monoclonal Antibody**Synonyms:** HI95; SES2; SEST2**UNIPROT ID:** P58004

Background: 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).

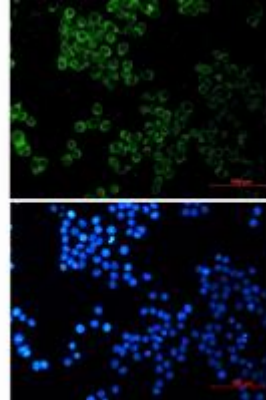
Immunogen: Recombinant protein of human SESN2**Applications:** WB,ICC/IF,IP**Recommended Dilutions:** WB: 1/500-1/1000 IF: 1/50-1/200 IP: 1/20**Host Species:** Rabbit**Clonality:** Rabbit Monoclonal**Clone ID:** R05-8C1**MW:** Calculated MW: 54 kDa; Observed MW: 54 kDa**Isotype:** IgG**Purification:** Affinity Purified**Species Reactivity:** Human,Mouse,Rat**Conjugation:** Unconjugated**Modification:** Unmodified**Constituents:** PBS (without Mg²⁺ and Ca²⁺), pH 7.3 containing 50% glycerol, 0.5% BSA and 0.02% sodium azide

Research Areas: Cardiovascular

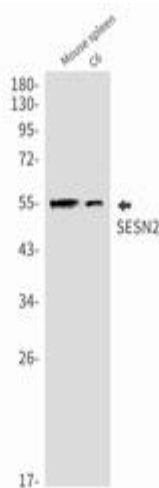
Storage & Shipping: Store at -20°C . Avoid repeated freezing and thawing



Western blot analysis of SESN2 in K562 lysates using SESN2 antibody



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.