

Datasheet for ABIN7452840
anti-Sestrin 2 antibody (AA 275-325)



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Overview

Quantity:	100 µg
Target:	Sestrin 2 (SESN2)
Binding Specificity:	AA 275-325
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Sestrin 2 antibody is un-conjugated
Application:	Western Blotting (WB), Immunoprecipitation (IP)

Product Details

Purpose:	Rabbit anti-SESN2 Antibody, Affinity Purified
Immunogen:	between AA 275 and 325
Isotype:	IgG
Predicted Reactivity:	Mouse,Orangutan
Purification:	Affinity Purified

Target Details

Target:	Sestrin 2 (SESN2)
Alternative Name:	SESN2 (SESN2 Products)
Background:	Background: SESN2 functions as an intracellular leucine sensor that negatively regulates the

Target Details

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. This stress-inducible metabolic regulator also plays a role in protection against oxidative and genotoxic stresses. SESN2 may negatively regulate protein translation in response to endoplasmic reticulum stress, via TORC1, and 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. May also mediate TP53 inhibition of TORC1 signaling upon genotoxic stress, and has an alkylhydroperoxide reductase activity born by the N-terminal domain of the protein. [taken from the Universal Protein Resource (UniProt) P58004].

Gene ID: 83667

UniProt: [P58004](#)

Application Details

Application Notes: IP: 50-100 µL/mg lysate
WB: 1:10,000 - 1:25,000

Restrictions: For Research Use only

Handling

Concentration: 1000 µg/mL

Buffer: Tris-citrate/phosphate buffer, pH 7 to 8 containing 0.09 % Sodium Azide

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: 4 °C

Expiry Date: 12 months