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Datasheet for ABIN7140136  
**anti-Sestrin 2 antibody (AA 42-61) (Biotin)**

## Overview

Quantity:	100 µL
Target:	Sestrin 2 (SESN2)
Binding Specificity:	AA 42-61
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Sestrin 2 antibody is conjugated to Biotin
Application:	ELISA

## Product Details

Immunogen:	Peptide sequence from Human Sestrin-2 protein (42-61AA)
Isotype:	IgG
Cross-Reactivity:	Human
Purification:	>95%, Protein G purified

## Target Details

Target:	Sestrin 2 (SESN2)
Alternative Name:	SESN2 ( <a href="#">SESN2 Products</a> )
Background:	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

## Target Details

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).

Aliases: DKFZp761M0212 antibody, DKFZp761M02121 antibody, Hi95 antibody, Hypoxia induced gene 95 antibody, MGC11758 antibody, OTTHUMP00000003641 antibody, OTTMUSP000000010184 antibody, RP23 63D8.3 antibody, SES2 antibody, SESN 2 antibody, SESN2 antibody, SESN2\_HUMAN antibody, SEST2 antibody, Sestrin 2 antibody, Sestrin-2 antibody

UniProt: [P58004](#)

## Application Details

Application Notes: Optimal working dilution should be determined by the investigator.

Restrictions: For Research Use only

## Handling

Format: Liquid

Buffer: Preservative: 0.03 % Proclin 300  
Constituents: 50 % Glycerol, 0.01M PBS, pH 7.4

Preservative: ProClin

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

Storage: -20 °C, -80 °C

## Handling

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Storage Comment: Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.