# antibodies .- online.com





## anti-Sestrin 2 antibody (AA 42-61) (FITC)



Go to	Draa	110+	0000
(¬() (()	PIOO	11 1( 21	1120

( )	1/0	r\ /1	014	
( )	ve	I V I	-v	V

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 FITC
Application:	Please inquire

## **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 (SESN2 Products)
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

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, OTTMUSP00000010184 antibody, RP23 63D8.3 antibody, SES2 antibody, SESN 2 antibody, SESN2 antibody, SESN2 antibody, SESN2\_HUMAN antibody, SEST2 antibody, Sestrin 2 antibody, Sestrin-2 antibody

UniProt:

P58004

#### **Application Details**

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