

Datasheet for ABIN6992081

anti-Sestrin 2 antibody (AA 220-270)[Go to Product page](#)

Overview

Quantity:	0.1 mg
Target:	Sestrin 2 (SESN2)
Binding Specificity:	AA 220-270
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Sestrin 2 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunofluorescence (IF), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Immunogen:	SESTRIN2 antibody was raised against a 19 amino acid peptide near the center of human SESTRIN2. The immunogen is located within amino acids 220 - 270 of SESTRIN2.
Isotype:	IgG
Specificity:	SESTRIN2 antibody is human, mouse and rat reactive. At least two isoforms of SESTRIN2 are known to exist, this antibody will detect both isoforms. SESTRIN2 antibody is predicted to not cross-react with SESTRIN1.
Purification:	SESTRIN2 antibody is affinity chromatography purified via peptide column.

Target Details

Target:	Sestrin 2 (SESN2)
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Target Details

Alternative Name:	SESTRIN2 (SESN2 Products)
Background:	SESTRIN2, also known as Hi95, is a member of the sestrin family of PA26-related proteins and is induced following DNA damage or oxidative stress (1). SESTRIN2 and the related protein SESTRIN1 interact with the NRF2 suppressor KEAP1, the autophagy substrate p62 and the ubiquitin ligase RBX1 to protect cells against oxidative stress by activating NRF2 and promoting the p62-dependent autophagic degradation of KEAP1 (2). SESTRIN2 also negatively regulates TOR signaling by activating AMP-activated protein kinase (AMPK) and TSC2 phosphorylation (3), thereby protecting cells against energetic stress-induced death (4).
Molecular Weight:	Predicted: 54 kDa Observed: 53 kDa
Gene ID:	83667
NCBI Accession:	NP_113647
UniProt:	P58004

Application Details

Application Notes:	SESTRIN2 antibody can be used for detection of SESTRIN2 by Western blot at 1 - 2 µg/mL. Antibody can also be used for immunohistochemistry starting at 5 µg/mL. For immunofluorescence start at 20 µg/mL. Antibody validated: Western Blot in mouse samples, Immunohistochemistry in mouse samples and Immunofluorescence in mouse samples. All other applications and species not yet tested.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	1 mg/mL
Buffer:	SESTRIN2 antibody is supplied in PBS containing 0.02 % 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.

Handling

Storage: -20 °C, 4 °C

Storage Comment: SESTRIN2 antibody can be stored at 4°C for three months and -20°C, stable for up to one year.