



Datasheet for ABIN7270259

anti-SESN1 antibody



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3 Images

Overview

Quantity:	100 µL
Target:	SESN1
Reactivity:	Human
Host:	Rabbit
Clonality:	Monoclonal
Conjugate:	This SESN1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC)

Product Details

Purpose:	sestrin 1 Rabbit mAb
Immunogen:	A synthesized peptide derived from human sestrin 1
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Characteristics:	Monoclonal Antibodies
Purification:	Affinity purification

Target Details

Target:	SESN1
Alternative Name:	SESN1 (SESN1 Products)
Background:	This gene encodes a member of the sestrin family. Sestrins are induced by the p53 tumor

Target Details

suppressor protein and play a role in the cellular response to DNA damage and oxidative stress. The encoded protein mediates p53 inhibition of cell growth by activating AMP-activated protein kinase, which results in the inhibition of the mammalian target of rapamycin protein. The encoded protein also plays a critical role in antioxidant defense by regenerating overoxidized peroxiredoxins, and the expression of this gene is a potential marker for exposure to radiation. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Dec 2010],PA26, SEST1,AMPK Signaling Pathway,Cell Biology & Developmental Biology,Endocrine & Metabolism,Endocrine and metabolic diseases,Endocrine and metabolic diseases_Obesity,SESN1

Molecular Weight: 70kDa

Gene ID: 27244

UniProt: [Q9Y6P5](#)

Application Details

Application Notes: WB,1:500 - 1:2000,IHC,1:50 - 1:200

Restrictions: For Research Use only

Handling

Format: Liquid

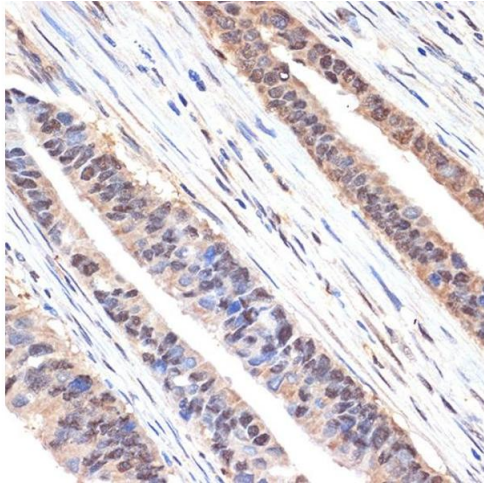
Buffer: PBS with 0.02 % sodium azide,0.05 % BSA,50 % glycerol, pH 7.3.

Preservative: Sodium azide

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

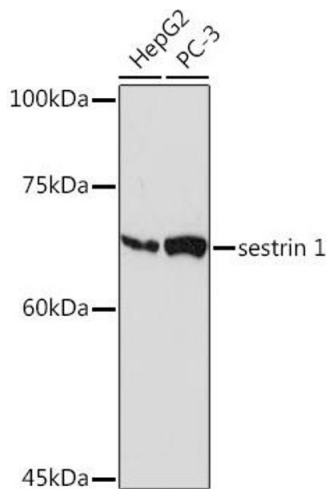
Storage: -20 °C

Storage Comment: Store at -20°C. Avoid freeze / thaw cycles.



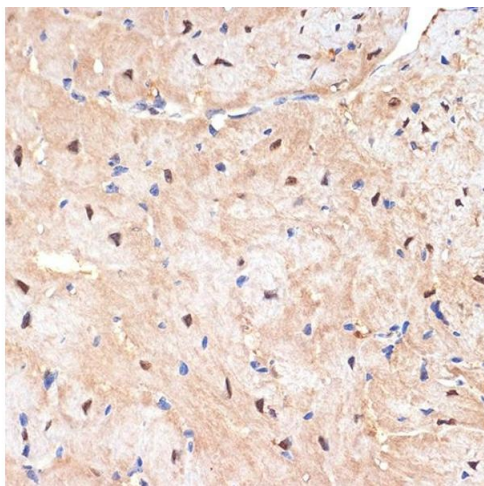
Immunohistochemistry

Image 1. Immunohistochemistry of paraffin-embedded human colon carcinoma using sestrin 1 Rabbit mAb (ABIN7270259) at dilution of 1:100 (40x lens). Perform microwave antigen retrieval with 10 mM Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



Western Blotting

Image 2. Western blot analysis of extracts of various cell lines, using sestrin 1 Rabbit mAb (ABIN7270259) at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (ABIN1684268 and ABIN3020597) at 1:10000 dilution. Lysates/proteins: 25 µg per lane. Blocking buffer: 3 % nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 180s.



Immunohistochemistry

Image 3. Immunohistochemistry of paraffin-embedded mouse heart using sestrin 1 Rabbit mAb (ABIN7270259) at dilution of 1:100 (40x lens). Perform microwave antigen retrieval with 10 mM Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.