Anti-SESN1 Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

Catalog # R015249

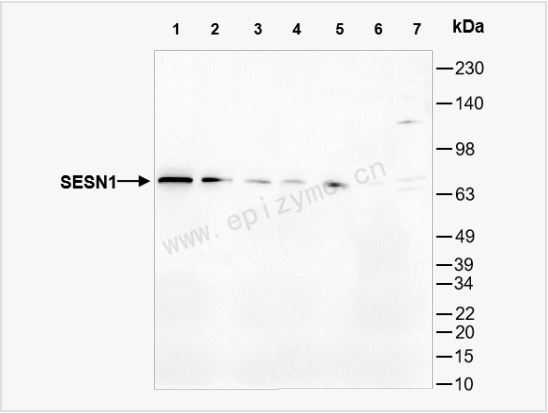
Product Information

Application	WB, IF (Cell)/ICC, ELISA
Reactivity	Human, Mouse, Rat
Dilution	WB 1:1,000~1:2,000; IF 1:100~1:200
Host	Rabbit
Clonality	Monoclonal
Clone No.	16T24J96
Isotype	IgG
Label	Unconjugated
Immunogen	A synthesized peptide derived from human SESN1
Format	Affinity purified monoclonal antibody supplied in PBS with 0.01% sodium azide and 50% glycerol, pH 7.3.
Storage	Shipped on wet ice. Store at -20°C. Stable for 24 months from date of receipt. Aliquoting is unnecessary for -20°C storage.
Precautions	Anti-SESN1 Rabbit mAb [16T24J96] is for research use only and not for use in diagnostic or therapeutic procedures.

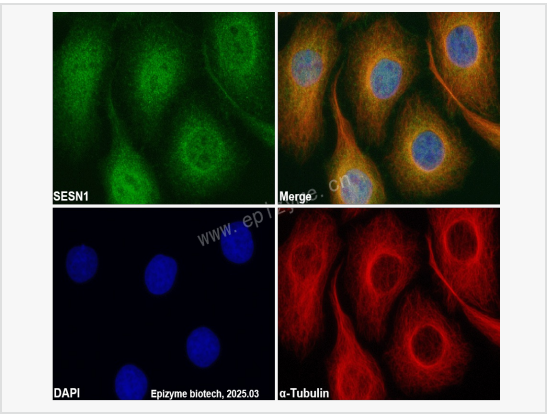
Protein Information

Synonyms	1110002G11Rik; AU044290; MGC118148; MGC138241; MGC142129; OTTMUSP00000022799; p53 activated gene 26; p53 regulated PA26 nuclear protein; p53 regulated protein PA26; p53-regulated protein PA26; PA26; RP11-787I22.1; sesn1; SESN1_HUMAN; SEST1; sestrin 1; Sestrin-1.
Calculated MW	Calculated MW: 57 kDa; Observed MW: 70 kDa
Uniprot ID	Q9Y6P5
Gene ID	27244
Background	This gene encodes a member of the sestrin family. Sestrins are induced by the p53 tumor 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].
Cellular Location	Nucleus.
Tissue Location	Widely expressed.

Validation Images



Western Blot - Anti-SESN1 Rabbit mAb [16T24J96]
All lanes: R015249 at 1:1,000 dilution
Lane 1: HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysates
Lane 2: HepG2 (Human hepatocarcinoma epithelial cell) whole cell lysates
Lane 3: HCT116 (Human colorectal carcinoma epithelial cell) whole cell lysates
Lane 4: Jurkat (Human T lymphocytic leukemia cell) whole cell lysates
Lane 5: 293T (Human embryonic kidney cell) whole cell lysates
Lane 6: Raw264.7 (Mouse mononuclear macrophage leukemia cell) whole cell lysates
Lane 7: PC-12 (Rat adrenal pheochromocytoma epithelial cell) whole cell lysates
Lysates/proteins at 10 µg per lane.
Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP Conjugated (Cat. No. LF102) at 1:5,000 dilution
Predicted band size: 57 kDa
Observed band size: 70 kDa
Developed using the ECL technique (Cat. No. SQ201).



Immunofluorescence - Anti-SESN1 Rabbit mAb [16T24J96]
Sample: HeLa cells
The cells were fixed with 4% paraformaldehyde (10 min), permeabilized with 0.5% Triton X-100 for 10 minutes and then blocked with 5% BSA in 0.1% PBS-Tween for 0.5 hours.
Primary antibodies: R015249 at 1:100 dilution and α-tubulin Mouse Monoclonal Antibody (Cat. No. LF209) at 1:100 dilution
Secondary antibodies: Goat anti-Rabbit (488) at 1:1,000 dilution (shown in green) and Goat anti-Mouse (555) at 1:1,000 dilution (shown in red)
Nuclei were stained with DAPI (shown in blue).