
Product Name: PA26 Rabbit Polyclonal Antibody**Catalog #: APRab15675**

For research use only.

Summary

Description	Rabbit polyclonal Antibody
Host	Rabbit
Application	WB,IHC,ICC/IF,ELISA
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Polyclonal
Form	Liquid
Concentration	1mg/ml
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type preservative N.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:500-1:2000,IHC 1:100-1:300,ICC/IF 1:50-1:200,ELISA 1:10000-1:20000
Molecular Weight	57kDa

Antigen Information

Gene Name	SESN1
Alternative Names	SESN1; PA26; SEST1; Sestrin-1; p53-regulated protein PA26
Gene ID	27244.0
SwissProt ID	Q9Y6P5
Immunogen	The antiserum was produced against synthesized peptide derived from human SESN1. AA range:271-320

Background

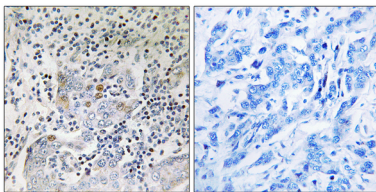
This gene encodes a member of the sestrin family. Sestrins are induced by the p53 tumor suppressor protein and play a role in

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],disease:Defects in SESN1 may be involved in heterotaxia. Heterotaxia is an aetiologically heterogeneous condition caused by an abnormal left-right axis formation, resulting in reversed left-right polarity of one or more organ systems.,function:Involved in the reduction of peroxiredoxins. May also be regulator of cellular growth.,induction:Isoforms T2 and isoform T3 are induced by genotoxic stress (UV, gamma-irradiation and cytotoxic drugs) in a p53-dependent manner. Isoform T1 is not induced by p53.,PTM:Phosphorylated upon DNA damage, probably by ATM or ATR.,similarity:Belongs to the sestrin family.,tissue specificity:Widely expressed,

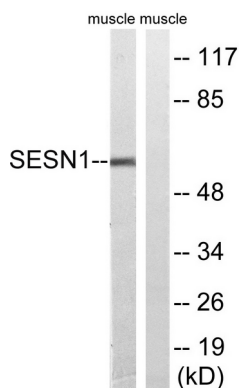
Research Area

p53;

Image Data



Immunohistochemistry analysis of paraffin-embedded human breast carcinoma tissue, using SESN1 Antibody. The picture on the right is blocked with the synthesized peptide.



Western blot analysis of lysates from rat muscle cells, using SESN1 Antibody. The lane on the right is blocked with the synthesized peptide.