Best Tools for immunology Research

PA26 Polyclonal Antibody

Catalog No :	YT3562
Reactivity :	Human;Mouse;Rat
Applications :	WB;IHC;IF;ELISA
Target :	PA26
Fields :	>>p53 signaling pathway;>>Longevity regulating pathway
Gene Name :	SESN1
Protein Name :	Sestrin-1
Human Gene Id :	27244
Human Swiss Prot No :	Q9Y6P5
Mouse Gene Id :	140742
Mouse Swiss Prot No :	P58006
Immunogen :	The antiserum was produced against synthesized peptide derived from human SESN1. AA range:271-320
Specificity :	PA26 Polyclonal Antibody detects endogenous levels of PA26 protein.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Polyclonal, Rabbit,IgG
Dilution :	WB 1:500 - 1:2000. IHC 1:100 - 1:300. ELISA: 1:20000.. IF 1:50-200
Purification :	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Concentration :	1 mg/ml

Storage Stability : -15°C to -25°C/1 year(Do not lower than -25°C)

Observed Band : 57kD

Cell Pathway : p53;

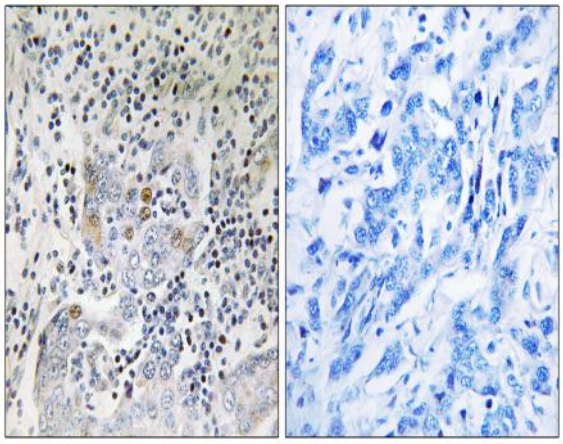
Background : This gene encodes a member of the sestrin family. Sestrins are induced by the p53 tumor suppressor protein and play a role in the cellular response to DNA damage and oxidative stress. The encoded protein mediates p53 inhibition of cell growth by activating AMP-activated protein kinase, which 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],

Function : 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.,

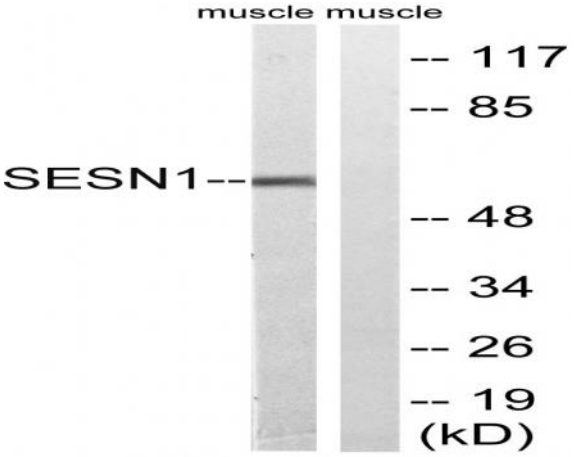
Subcellular Location : Nucleus . Cytoplasm .

Expression : Widely expressed.

Products Images



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.