

Anti-SESN1 Antibody

Rabbit polyclonal antibody to SESN1

Catalog # AP60780

Product Information

Application	WB, IHC
Primary Accession	Q9Y6P5
Other Accession	P58006
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	56557

Additional Information

Gene ID	27244
Other Names	PA26; SEST1; Sestrin-1; p53-regulated protein PA26
Target/Specificity	Recognizes endogenous levels of SESN1 protein.
Dilution	WB~~WB (1/500 - 1/1000), IHC (1/100 - 1/200) IHC~~WB (1/500 - 1/1000), IHC (1/100 - 1/200)
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

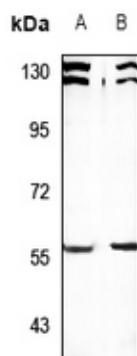
Name	SESN1 (HGNC:21595)
Function	Functions as an intracellular leucine sensor that negatively regulates the TORC1 signaling pathway through the GATOR complex. In absence of leucine, binds the GATOR subcomplex GATOR2 and prevents TORC1 signaling. Binding of leucine to SESN2 disrupts its interaction with GATOR2 thereby activating the TORC1 signaling pathway (PubMed: 25263562 , PubMed: 26449471). This stress-inducible metabolic regulator may also play a role in protection against oxidative and genotoxic stresses (By similarity). May positively regulate the transcription by NFE2L2 of genes involved in the response to oxidative stress by facilitating the SQSTM1-mediated autophagic degradation of KEAP1 (PubMed: 23274085). Moreover, may prevent the accumulation of reactive oxygen species (ROS) through the alkylhydroperoxide reductase activity born by the N-terminal domain of the protein (By similarity). Was originally reported to contribute to oxidative stress resistance by reducing PRDX1 (PubMed: 15105503). However, this could not be confirmed (By similarity).

Cellular Location	Nucleus. Cytoplasm
Tissue Location	Widely expressed..

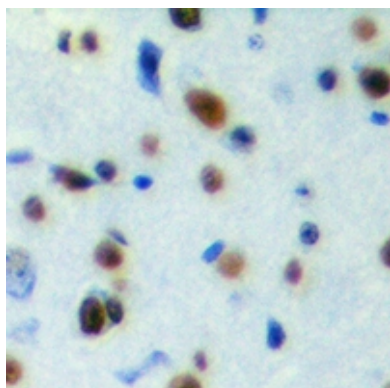
Background

KLH-conjugated synthetic peptide encompassing a sequence within the center region of human SESN1. The exact sequence is proprietary.

Images



Western blot analysis of SESN1 expression in HeLa (A), PC12 (B) whole cell lysates.



Immunohistochemical analysis of SESN1 staining in human brain formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

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