

Anti-PA26 antibody



Description	Rabbit polyclonal to PA26.
Model	STJ94927
Host	Rabbit
Reactivity	Human, Mouse, Rat
Applications	ELISA, IHC, WB
Immunogen	Synthesized peptide derived from human PA26
Immunogen Region	240-320 aa, Internal
Gene ID	27244
Gene Symbol	SESN1
Dilution range	WB 1:500-1:2000IHC 1:100-1:300ELISA 1:20000
Specificity	PA26 Polyclonal Antibody detects endogenous levels of PA26 protein.
Tissue Specificity	Widely expressed.
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Note	For Research Use Only (RUO).
Protein Name	Sestrin-1 p53-regulated protein PA26
Molecular Weight	57 kDa
Clonality	Polyclonal
Conjugation	Unconjugated

Isotype	IgG
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Concentration	1 mg/ml
Storage Instruction	Store at -20°C, and avoid repeat freeze-thaw cycles.
Database Links	HGNC:21595 OMIM:606103
Alternative Names	Sestrin-1 p53-regulated protein PA26
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 . This stress-inducible metabolic regulator may also play a role in protection against oxidative and genotoxic stresses . 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 . May have an alkylhydroperoxide reductase activity born by the N-terminal domain of the protein . Was originally reported to contribute to oxidative stress resistance by reducing PRDX1 . However, this could not be confirmed .
Sequence and Domain Family	Composed of an N-terminal domain that has an alkylhydroperoxide reductase activity and a C-terminal domain that mediates interaction with GATOR2 through which it regulates TORC1 signaling.
Cellular Localization	Nucleus Cytoplasm

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