Rabbit SESTRIN2 Polyclonal Antibody | anti-SESN2 antibody

SESTRIN2 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA40556	**Rabbit**	**Human, Mouse, Rat**	**Immunofluorescence, Immunohistochemistry, Western Blot, ELISA**

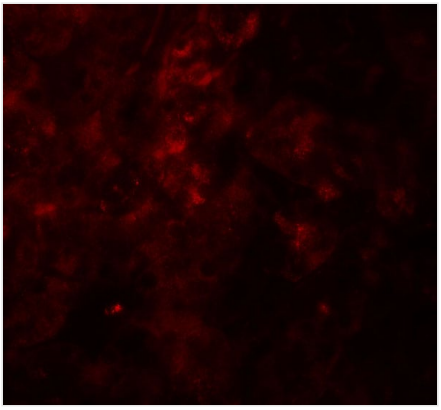
PRODUCT SYNONYMS

SESTRIN2; Polyclonal Antibody; SESTRIN2 Antibody; SESTRIN-2; SES2; SEST2; SESN2; HI95; sestrin 2; anti-SESN2 antibody

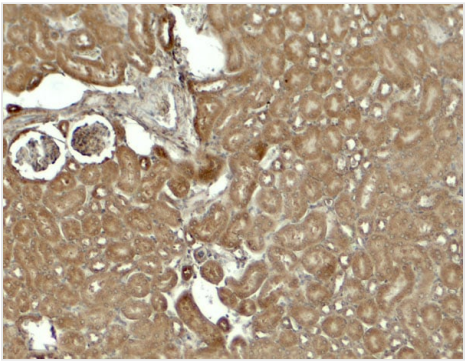
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	SESTRIN2 antibody is human, mouse and rat reactive. At least two isoforms of SESTRIN2 are known to exist; this antibody will detect both isoforms. SESTRIN2 antibody is predicted to not cross-react with SESTRIN1.
Purity/Purification	SESTRIN2 antibody is affinity chromatography purified via peptide column.
Form/Format	Liquid
Concentration	1 mg/mL (varies by lot)
Sequence Length	480
Applicable Applications for anti-SESN2 antibody	IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot), ELISA
Conjugate	Unconjugated
Immunogen	SESTRIN2 antibody was raised against a 19 amino acid peptide near the center of human SESTRIN2.
Buffer	SESTRIN2 antibody is supplied in PBS containing 0.02% sodium azide.
Preparation and Storage	SESTRIN2 antibody can be stored at 4 degree C for three months and -20 degree C, stable for up to one year.

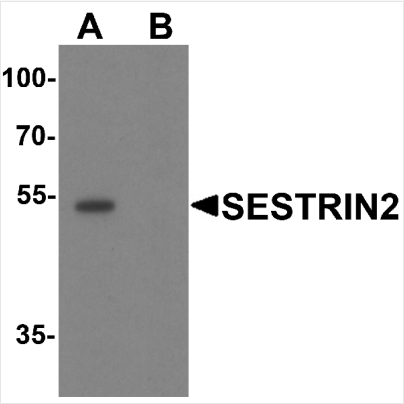
IMAGES



IF (Immunofluorescence)
Immunofluorescence of SESTRIN2 in mouse kidney tissue with SESTRIN2 antibody at 20 μg/ml.



IHC (Immunohiostchemistry)
Immunohistochemistry of SESTRIN2 in mouse kidney tissue with SESTRIN2 antibody at 5 μg/ml.



WB (Western Blot)
Western blot analysis of SESTRIN2 in mouse kidney tissue lysate with SESTRIN2 antibody at 1 μg/ml in (A) the absence and (B) the presence of blocking peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-SESN2 antibody	SESTRIN2, also known as Hi95, is a member of the sestrin family of PA26-related proteins and is induced following DNA damage or oxidative stress (1). SESTRIN2 and the related protein SESTRIN1 interact with the NRF2 suppressor KEAP1, the autophagy substrate p62 and the ubiquitin ligase RBX1 to protect cells against oxidative stress by activating NRF2 and promoting the p62-dependent autophagic degradation of KEAP1 (2). SESTRIN2 also negatively regulates TOR signaling by activating AMP-activated protein kinase (AMPK) and TSC2 phosphorylation (3), thereby protecting cells against energetic stress-induced death (4).

NCBI AND UNIPROT INFORMATION

NCBI GI #	13899299
NCBI GeneID	83667
NCBI Accession #	NP_113647
NCBI GenBank Nucleotide #	NM_031459.4
UniProt Accession #	P58004; Q5T7D0; Q96SI5
Molecular Weight	Predicted: 54 kDa Observed: 53 kDa
NCBI Official Full Name	sestrin-2

NCBI Official Synonym Full Names	sestrin 2
NCBI Official Symbol	SESN2
NCBI Official Synonym Symbols	HI95; SES2; SEST2
NCBI Protein Information	sestrin-2; hypoxia induced gene 95
UniProt Protein Name	Sestrin-2
UniProt Gene Name	**SESN2**
UniProt Synonym Gene Names	SEST2
UniProt Entry Name	SESN2_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: https://stage.aaabiotech.com/polyclonal/sestrin2-antibody-immunofluorescence-immunohistochemistry-western-blot-elisa/40556