

Product datasheet for TA349117

SESN2 Rabbit Polyclonal Antibody

Product data:

Product Type: Primary Antibodies

Applications: IF, IHC, WB

Recommended Dilution: WB: 1 - 2 ug/mL, IHC: 5 ug/mL, IF: 20 ug/mL

Reactivity: Human, Mouse, Rat

Host: Rabbit Isotype: **IgG**

Clonality: Polyclonal

Immunogen: SESTRIN2 antibody was raised against a 19 amino acid peptide near the center of human

SESTRIN2.

Formulation: PBS containing 0.02% sodium azide.

Concentration: 1 mg/ml

Purification: SESTRIN2 antibody is affinity chromatography purified via peptide column.

Conjugation: Unconjugated

Store at -20°C as received. Storage:

Stability: Stable for 12 months from date of receipt.

Predicted Protein Size: Predicted: 54 kDa; Observed: 53 kDa

Gene Name: sestrin 2 Database Link: NP 113647

Entrez Gene 83667 Human

P58004

Background: 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).

Synonyms: HEL-205; MRD2; ZIR8



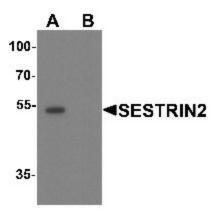
OriGene Technologies, Inc. 9620 Medical Center Drive, Ste 200

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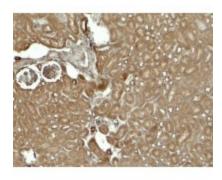
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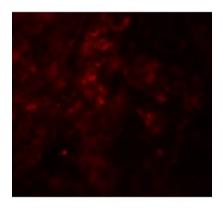
Product images:



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



Immunohistochemistry of SESTRIN2 in mouse kidney tissue with SESTRIN2 antibody at 5 ug/mL.



Immunofluorescence of SESTRIN2 in mouse kidney tissue with SESTRIN2 antibody at 20 ug/mL.