G-Biosciences Image not found or type unknown

Immunotag™ SESN1 Antibody

Antibody Specification

Catalog No.	ITA5372
Product Description	Immunotag™ SESN1 Antibody
Size	100 µg, 200 µg
Conjugation	HRP, Biotin, FITC, Alexa Fluor® 350, Alexa Fluor® 405, Alexa Fluor® 488, Alexa Fluor® 555, Alexa Fluor® 594, Alexa Fluor® 647
IMPORTANT NOTE	This product is custom manufactured with a lead time of 3-4 weeks. Once in production, this item cannot be cancelled from an order and is not eligible for return.
Target Protein	SESN1
Clonality	Polyclonal
Storage/Stability	-20°C/1 year
Application	WB,IHC,ELISA
Recommended Dilution	WB 1:500~1:1000 IHC: 1:50~1:200
Concentration	1 mg/ml
Reactive Species	Human,Mouse
Host Species	Rabbit
Immunogen	A synthesized peptide
Specificity	SESN1 Antibody detects endogenous levels of total SESN1
Purification	The antiserum was purified by peptide affinity chromatography.
Form	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.Store at -20 °C.Stable for 12 months from date of receipt
Gene Name	SESN1
Accession No.	Q9Y6P5
Alternate Names	1110002G11Rik; AU044290; MGC118148; MGC138241; MGC142129; OTTMUSP00000022799; p53 activated gene 26; p53 regulated PA26 nuclear protein; p53 regulated protein PA26; p53-regulated protein PA26; PA26; RP11-787I22.1; sesn1; SESN1_HUMAN; SEST1; sestrin 1; Sestrin-1;

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Description	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). May have an 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).
Cell Pathway/ Category	Primary Polyclonal Antibody
Protein MW	57 KD
Usage	For Research Use Only! Not for diagnostic or therapeutic procedures.