G-Biosciences Image not found or type unknown

Immunotag™ SIRT3 Antibody

Antibody Specification

Catalog No.	ITA1308
Product Description	Immunotag™ SIRT3 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	SIRT3
Clonality	Polyclonal
Storage/Stability	-20°C/1 year
Application	WB,IHC,IF/ICC,ELISA
Recommended Dilution	WB 1:500-1:2000 IHC 1:50-1:200, IF/ICC 1:100-1:500
Concentration	1 mg/ml
Reactive Species	Human,Mouse,Rat
Host Species	Rabbit
Immunogen	A synthesized peptide derived from human SIRT3
Specificity	SIRT3 antibody detects endogenous levels of total SIRT3
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	SIRT3
Accession No.	Q9NTG7

Antibody Specification

Alternate Names	hSIRT 3; hSIRT3; Mitochondrial nicotinamide adenine dinucleotide dependent deacetylase; NAD dependent deacetylase sirtuin 3 mitochondrial; NAD-dependent protein deacetylase sirtuin-3, mitochondrial; Regulatory protein SIR2 homolog 3; Silent mating type information regulation 2 S.cerevisiae homolog 3; Sir 2 like 3; SIR 2 like protein 3; SIR 3; SIR2 L3; Sir2 like 3; SIR2 like protein 3; SIR2-like protein 3; SIR2L3; SIR3_HUMAN; SIRT 3; SIRT3; Sirtuin 3; Sirtuin silent mating type information regulation 2 homolog 3 (S. cerevisiae); Sirtuin type 3; Sirtuin3;
Description	NAD-dependent protein deacetylase (PubMed:12186850, PubMed:12374852, PubMed:16788062, PubMed:18680753, PubMed:18794531, PubMed:23283301, PubMed:24121500, PubMed:24252090, PubMed:19535340). Activates or deactivates mitochondrial target proteins by deacetylating key lysine residues (PubMed:12186850, PubMed:12374852, PubMed:16788062, PubMed:18680753, PubMed:18794531, PubMed:23283301, PubMed:24121500, PubMed:24252090). Known targets include ACSS1, IDH, GDH, SOD2, PDHA1, LCAD, SDHA and the ATP synthase subunit ATP5O (PubMed:16788062, PubMed:18680753, PubMed:24121500, PubMed:24252090, PubMed:19535340). Contributes to the regulation of the cellular energy metabolism (PubMed:24252090). Important for regulating tissue-specific ATP levels (PubMed:18794531). In response to metabolic stress, deacetylates transcription factor FOXO3 and recruits FOXO3 and mitochondrial RNA polymerase POLRMT to mtDNA to promote mtDNA transcription (PubMed:23283301).
Cell Pathway/ Category	Primary Polyclonal Antibody
Protein MW	29 kDa
Usage	For Research Use Only! Not for diagnostic or therapeutic procedures.