Immunotag™ SIRT3 Antibody

Antibody Specification

Catalog No.	ITA5562
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,IF/ICC,ELISA
Recommended Dilution	WB 1:500~1:1000, IF/ICC 1:100-1:500
Concentration	1 mg/ml
Reactive Species	Human
Host Species	Rabbit
Immunogen	A synthesized peptide
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

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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	45 KD
Usage	For Research Use Only! Not for diagnostic or therapeutic procedures.