

## SIRT4 Conjugated Antibody

Catalog No: #C25124



Package Size: #C25124-AF350 100ul #C25124-AF405 100ul #C25124-AF488 100ul  
 #C25124-AF555 100ul #C25124-AF594 100ul #C25124-AF647 100ul  
 #C25124-AF680 100ul #C25124-AF750 100ul #C25124-Biotin 100ul

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## Description

Product Name	SIRT4 Conjugated Antibody
Clonality	Polyclonal
Purification	Affinity chromatography purified via peptide column
Species Reactivity	Hu Ms Rt
Immunogen Type	Peptide
Immunogen Description	Raised against a 17 amino acid peptide near the amino terminus of human SIRT4.
Target Name	SIRT4
Other Names	Sirtuin-4, NAD-dependent deacetylase sirtuin-4, SIR2L4
Accession No.	Swiss-Prot:Q9Y6E7 Gene ID:23409
Excitation Emission	AF350: 346nm/442nm AF405: 401nm/421nm AF488: 493nm/519nm AF555: 555nm/565nm AF594: 591nm/614nm AF647: 651nm/667nm AF680: 679nm/702nm AF750: 749nm/775nm
Concentration	1mg/ml
Formulation	Supplied in PBS containing 0.02% sodium azide.
Storage	Can be stored at -20°C, stable for one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.

## Application Details

## Suggested Dilution:

AF350 conjugated: most applications: 1: 50 - 1: 250

AF405 conjugated: most applications: 1: 50 - 1: 250

AF488 conjugated: most applications: 1: 50 - 1: 250

AF555 conjugated: most applications: 1: 50 - 1: 250

AF594 conjugated: most applications: 1: 50 - 1: 250

AF647 conjugated: most applications: 1: 50 - 1: 250

AF680 conjugated: most applications: 1: 50 - 1: 250

AF750 conjugated: most applications: 1: 50 - 1: 250

Biotin conjugated: working with enzyme-conjugated streptavidin, most applications: 1: 50 - 1: 1,000

## Background

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The Silent Information Regulator (SIR2) family of genes are highly conserved from prokaryotes to eukaryotes and have important functions in the regulation of metabolism, growth and differentiation, inflammation, cellular survival, as well as in senescence and lifespan extension. Sirtuins, including SIRT1-7, are human homologs of yeast Sir2p. Sirtuins are NAD<sup>+</sup>-dependent histone/protein deacetylases (HDAC) which regulate cellular metabolism, e.g. energy metabolism, and thereby are associated with aging and several age-related diseases. SIRT4 localizes to mitochondria, inhibits glutamate dehydrogenase, and is thought to be involved in the regulation of insulin secretion.

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Note: This product is for in vitro research use only