

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Sirtuin 2/SIRT2 in direct ELISAs and Western blots. In direct ELISAs and Western blots, no cross-reactivity with recombinant human SIRT1 is observed.
Source	Monoclonal Mouse IgG ₁ Clone # 506611
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>S. frugiperda</i> insect ovarian cell line Sf 21-derived recombinant human Sirtuin 2/SIRT2 Ala2-Gln389 Accession # Q8IXJ6
Conjugate	Alexa Fluor 750 Excitation Wavelength: 749 nm Emission Wavelength: 775 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

Western Blot	Optimal dilution of this antibody should be experimentally determined.
Immunoprecipitation	Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

Sirtuin 2, encoded by the SIRT2 gene, is also known as SIR2 (silent information regulator 2)-like protein 2. It is a nicotinamide adenine dinucleotide (NAD)-dependent histone/protein deacetylase (1, 2). The SIR2 family of enzymes is classified as class III histone deacetylases (HDACs) and has been implicated in many cellular processes that include histone deacetylation, gene silencing, chromosomal stability, and aging (3, 4). Unlike class I and class II HDACs, the enzymatic activity of class III HDACs is NAD dependent and insensitive to HDAC inhibitor trichostatin A (5).

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