

CoraLite® Plus 488-conjugated SIRT2 Monoclonal antibody

Catalog Number: **CL488-66410**

Basic Information

Catalog Number: CL488-66410	GenBank Accession Number: BC003547	Purification Method: Protein G purification
Size: 1000 µg/ml	GeneID (NCBI): 22933	CloneNo.: 1D8G10
Source: Mouse	UNIPROT ID: Q8IXJ6	Recommended Dilutions: IF/ICC 1:50-1:500
Isotype: IgG1	Full Name: sirtuin (silent mating type information regulation 2 homolog) 2 (S. cerevisiae)	Excitation/Emission maxima wavelengths: 493 nm / 522 nm
Immunogen Catalog Number: AG7756	Calculated MW: 43 kDa	
	Observed MW: 37-45 kDa	

Applications

Tested Applications: IF/ICC	Positive Controls: IF/ICC : HepG2 cells,
Species Specificity: human, mouse, rat, pig	

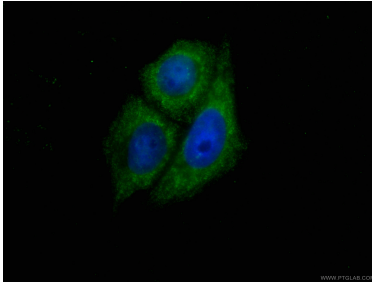
Background Information

The silent information regulator(SIR2) family of genes are highly conserved from prokaryotes to eukaryotes and are involved in diverse processes, including transcriptional regulation, cell cycle progression, DNA-damage repair and aging. SIR2 contains a 323 amino acid catalytic core domain with a NAD-binding domain and a large groove which is the likely site of catalysis. SIR2 is widely expressed, highly expressed in heart, brain and skeletal muscle, while it is weakly expressed in placenta and lung. Down-regulated in many gliomas suggesting that it may act as a tumor suppressor gene in human gliomas possibly through the regulation of microtubule network. SIRT2 exists various isoforms and the molecular weight of isoforms are 35kDa, 40 kDa, and 42 kDa.

Storage

Storage:
Store at -20°C. Avoid exposure to light. Stable for one year after shipment.
Storage Buffer:
PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.
Aliquoting is unnecessary for -20°C storage

Selected Validation Data



Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using CL488-66410 (SIRT2 antibody) at dilution of 1:100.