

For Research Use Only

SIRT3 Recombinant antibody, PBS Only

Catalog Number: 82210-1-PBS



Basic Information

Catalog Number: 82210-1-PBS	GenBank Accession Number: BC001042	Purification Method: Protein A purification
Size: 100ug , Concentration: 1mg/ml by Nanodrop;	GeneID (NCBI): 23410	CloneNo.: 2P6
Source: Rabbit	UNIPROT ID: Q9NTG7	
Isotype: IgG	Full Name: sirtuin (silent mating type information regulation 2 homolog) 3 (S. cerevisiae)	
Immunogen Catalog Number: AG26280	Calculated MW: 44 kDa	
	Observed MW: 28-30 kDa	

Applications

Tested Applications:
WB, IHC, Indirect ELISA

Species Specificity:
human, mouse, rat, pig

Background Information

Sirtuins are NAD⁺-dependent histone/protein deacetylases (HDAC) and SIRT3 is the only sirtuin whose increased expression has been shown to correlate with an extended life span in humans. It is localized in the mitochondrial matrix, where it regulates the acetylation levels of metabolic enzymes, including acetyl coenzyme A synthetase 2. SIRT3 is stress-responsive and its increased expression protects myocytes from genotoxic and oxidative stress-mediated cell death. full-length hSIRT3 (44 kDa) is an inert protein and that it is activated inside the mitochondria following deletion of 142 amino acids of the N-terminal segment. This processed form of SIRT3 is approximately 28 kDa and possesses deacetylase activity. The full SIRT3 is a 44 kDa protein and is processed by mitochondrial processing peptidase (MPP) to give a 28 kDa product.

Storage

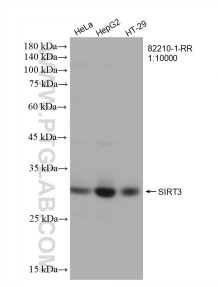
Storage:
Store at -80°C.

Storage Buffer:
PBS only, pH7.3

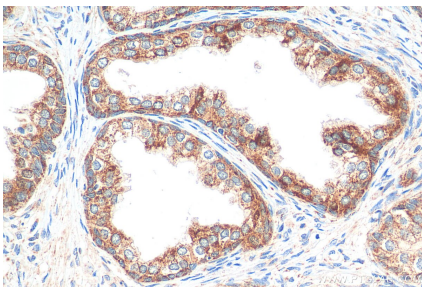
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

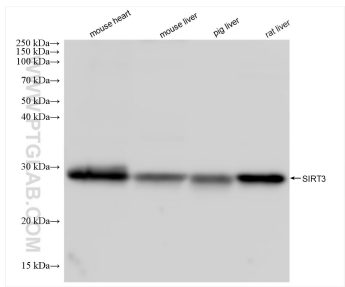
Selected Validation Data



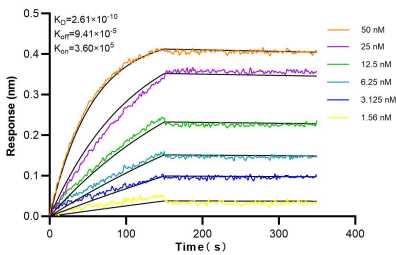
Various lysates were subjected to SDS PAGE followed by western blot with 82210-1-RR (SIRT3 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 82210-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded human prostate cancer tissue slide using 82210-1-RR (SIRT3 antibody) at dilution of 1:400 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 82210-1-PBS in a different storage buffer formulation.



Various lysates were subjected to SDS PAGE followed by western blot with 82210-1-RR (SIRT3 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 82210-1-PBS in a different storage buffer formulation.



Biolayer interferometry (BLI) kinetic assays of 82210-1-RR against Human SIRT3 were performed. The affinity constant is 0.261 nM.