Ablumir
Built Around Immunology

Anti-SIRT3 Rabbit mAb [18C83]

Catalog No.: A52301

Basic Information

Catalog No. (Cat.No.)	A52301
Host species	Rabbit
Reactivity	Human,Mouse,Rat
Applications	WB,IHC,IF,ELISA
Synonyms	SIRT3,Sirtuin 3,mitochondrial

Product Information

Target	SIRT3
Molecular Weight(Calculated)	44 kDa
Molecular Weight(Observed)	28 kDa
Isotype	IgG,Kappa
Conjugation	NA
Concentration	0.2 mg/ml
Clonality	Monoclonal
Clone No.	18C83
RRID	NA
Storage buffer	50% Glycerol, 0.05% BSA and 0.05% preservative in PBS (pH 7.2-7.4)
Storage	Stored at -20°C for 1 year. Avoid repeated freeze / thaw cycles.
Shipped at conditions	Frozen
Form	Liquid

Ablumir
Built Around Immunology

Product Usage Information

Application	Dilution
WB	1:1000-1:5000
IHC	1:200-1:1000
IF	1:200-1:1000
ELISA	1:5000-1:20000

Target Information

Protein Name	Sirtuin-3
Gene Name	*SIRT3*
Domain	NA
Background	SIRT3 (Sirtuin-3) is mitochondrially-targeted NAD+-dependent deacetylase family protein mediating matrix-protein deacetylation to modulate oxidative phosphorylation, antioxidant defence and metabolic reprogramming. SIRT3 precursor is translated in cytosol, imported into mitochondrial matrix and proteolytically processed into active form. It deacetylates respiratory-complex subunits, IDH2, SOD2 and other matrix proteins, boosting mitochondrial antioxidant capacity and tuning TCA-cycle and fatty-acid oxidation. SIRT3 mitigates ROS burden and sustains mitochondrial homeostasis; its expression declines in ageing and metabolic disorders. In tumors SIRT3 exerts dual effects: it counteracts oxidative genome damage yet can sustain oncogenic metabolism.