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SIRT3 (YD33715) Rabbit mAb

货号: AYD13066

产品信息

反应	Mouse,Rat
宿主	Rabbit
克隆性	Monoclonal
预测反应	
应用	WB IP
推荐浓度	
理论分子量	37kDa
实测分子量	
形式	Liquid
保存条件	Store at -20℃. Avoid freeze / thaw cycles. Buffer: PBS with 0.75% BSA,50% glycerol,pH7.3.
偶联物	Unconjugated
阳性对照	
细胞定位	Mitochondrion matrix, Cytoplasm
纯化	亲和纯化

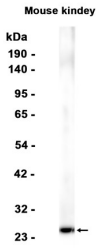
抗原信息

抗原信息	

靶点信息

研究背景	NAD-dependent protein deacetylase (PubMed:17923681, PubMed:18794531, PubMed:21172655, PubMed:23835326, PubMed:26620563). Activates or deactivates mitochondrial target proteins by deacetylating key lysine residues (PubMed:17923681, PubMed:18794531, PubMed:21172655, PubMed:23835326). Known targets include ACSS1, IDH, GDH, PDHA1, SOD2, LCAD, SDHA, MRPL12 and the ATP synthase subunit ATP5PO (PubMed:16790548, PubMed:18794531, PubMed:21172655). Contributes to the regulation of the cellular energy metabolism (PubMed:23835326, PubMed:36804859). Important for regulating tissue-specific ATP levels (PubMed:18794531, PubMed:24252090). In response to metabolic stress, deacetylates transcription factor FOXO3 and recruits FOXO3 and mitochondrial RNA polymerase POLRMT to mtDNA to promote mtDNA transcription (PubMed:23283301). Acts as a regulator of ceramide metabolism by mediating deacetylation of ceramide synthases CERS1, CERS2 and CERS6, thereby increasing their activity and promoting mitochondrial ceramide accumulation (PubMed:26620563). Regulates hepatic lipogenesis (PubMed:36804859). Uses NAD(+) substrate imported by SLC25A47, triggering downstream activation of PRKAA1/AMPK-alpha signaling cascade that ultimately downregulates sterol regulatory element-binding protein (SREBP) transcriptional activities and ATP-consuming lipogenesis to restore cellular energy balance (PubMed:36804859). In addition to protein deacetylase activity, also acts as a protein-lysine deacylase by recognizing other acyl groups, such as benzoyl and lactoyl, leading to protein debenzoylation and delactylation, respectively (By similarity). Catalyzes debenzoylation of PPIF and ACLY (By similarity). Mediates delactylation of CCNE2 and 'Lys-16' of histone H4 (H4K16la) (By similarity)
基因ID	3134
基因名	Sirt3
Swiss	Q8R104 (https://www.uniprot.org/uniprotkb/Q8R104/entry)
别名	SIRT3 (YD33715),SIRT3 (YD33715) Rabbit mAb,Sirt3,NAD-dependent protein delactylase sirtuin-3,Regulatory protein SIR2 homolog 3,SIR2-like protein 3,Sir2l3

产品验证



实验步骤

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