

Product datasheet

Anti-SIRT5 antibody ab86274

画像数 3

製品の概要

製品名	Anti-SIRT5 antibody
製品の詳細	Rabbit polyclonal to SIRT5
由来種	Rabbit
アプリケーション	適用あり: IHC-P, WB
種交差性	交差種: Human 交差が予測される動物種: Rabbit, Pig
免疫原	Synthetic peptide corresponding to a region within the internal amino acids 179-228 (ICPALSGKGAPEPGTQDASIPVEKLPREEAGCGLLRPHVWVWFGENLD P) of Human SIRT5 (NP_036373).
ポジティブ・コントロール	human fetal heart lysate

製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid repeated freeze / thaw cycles.
バッファー	Preservative: None Constituents: 2% Sucrose, PBS
精製度	Immunogen affinity purified
ポリ/モノ	ポリクローナル
アイソタイプ	IgG

アプリケーション

Our [Abpromise guarantee](#) covers the use of **ab86274** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

アプリケーション	Abreviews	特記事項
IHC-P		Use at an assay dependent concentration.

アプリケーション	Abreviews	特記事項
WB		Use a concentration of 1 µg/ml. Predicted molecular weight: 34 kDa. Good results were obtained when blocked with 5% non-fat dry milk in 0.05% PBS-T.

ターゲット情報

機能	NAD-dependent lysine demalonylase, desuccinylase and deglutarylase that specifically removes malonyl, succinyl and glutaryl groups on target proteins (PubMed:21908771, PubMed:22076378, PubMed:24703693). Activates CPS1 and contributes to the regulation of blood ammonia levels during prolonged fasting: acts by mediating desuccinylation and deglutarylation of CPS1, thereby increasing CPS1 activity in response to elevated NAD levels during fasting (PubMed:22076378, PubMed:24703693). Activates SOD1 by mediating its desuccinylation, leading to reduced reactive oxygen species (PubMed:24140062). Modulates ketogenesis through the desuccinylation and activation of HMGCS2 (By similarity). Has weak NAD-dependent protein deacetylase activity; however this activity may not be physiologically relevant in vivo. Can deacetylate cytochrome c (CYCS) and a number of other proteins in vitro such as UOX.
組織特異性	Widely expressed.
配列類似性	Belongs to the sirtuin family. Class III subfamily. Contains 1 deacetylase sirtuin-type domain.
ドメイン	In contrast to class I sirtuins, class III sirtuins have only weak deacetylase activity. Difference in substrate specificity is probably due to a larger hydrophobic pocket with 2 residues (Tyr-102 and Arg-105) that bind to malonylated and succinylated substrates and define the specificity (PubMed:22076378).
細胞内局在	Mitochondrion; Cytoplasm. Mitochondrion and Mitochondrion matrix. Mitochondrion intermembrane space. Cytoplasm, cytosol. Nucleus. Mainly mitochondrial. Also present extramitochondrially: a fraction is present in the cytosol and very small amounts are also detected in the nucleus.

画像

90 kDa
65 kDa
40 kDa
29 kDa
22 kDa



Western blot - Anti-SIRT5 antibody (ab86274)

Anti-SIRT5 antibody (ab86274) at 1 µg/ml (5% skim milk/ PBS buffer) + fetal heart lysate at 10 µg with gel concentration: 12%

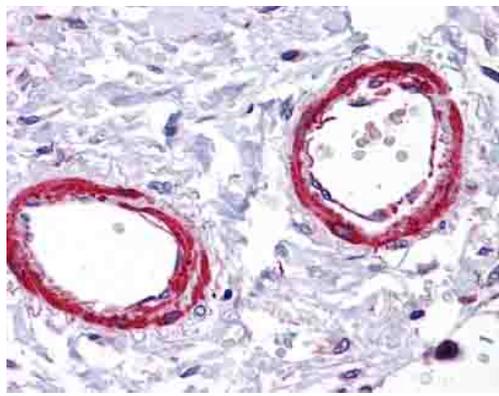
Secondary

HRP conjugated anti-Rabbit IgG at 1/50000 dilution

Predicted band size: 34 kDa

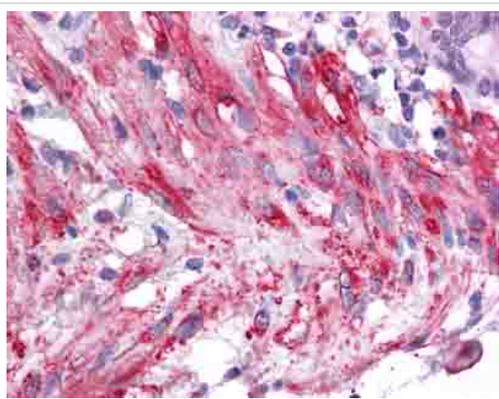
Observed band size: 34 kDa

Additional bands at: 40 kDa. We are unsure as to the identity of these extra bands.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human small intestine labelling SIRT5 with ab86274.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SIRT5 antibody (ab86274)



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human vessels labelling SIRT5 with ab86274.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SIRT5 antibody (ab86274)

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