

## Product datasheet

### Anti-SIRT5 antibody ab78982

画像数 1

#### 製品の概要

製品名	Anti-SIRT5 antibody
製品の詳細	Rabbit polyclonal to SIRT5
アプリケーション	<b>適用あり:</b> WB, IHC-P
種交差性	<b>交差種:</b> Mouse, Rat, Human
免疫原	Synthetic peptide: CLKMARPSSSMADFRKF , corresponding to amino acids 30-46 of Human SIRT5 <a href="#">Run BLAST with</a> <a href="#">Run BLAST with</a>
ポジティブ・コントロール	Kidney tissue.

#### 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 freeze / thaw cycles.
バッファー	Preservative: 0.05% Sodium azide Constituents: PBS, 0.05% BSA
精製度	Protein G 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 **ab78982** in the following tested applications.

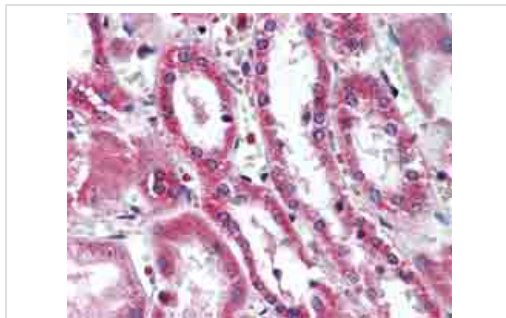
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

アプリケーション	Abreviews	特記事項
WB		Use a concentration of 1 - 3 µg/ml. Predicted molecular weight: 34 kDa.
IHC-P		Use a concentration of 5 µg/ml.

## 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



ab78982 at 5µg/ml staining SIRT5 in kidney tissue.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - SIRT5 antibody (ab78982)

**Please note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

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