abcam

Product datasheet

Anti-NMNAT2 antibody ab110040

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概述

产品名称	Anti-NMNAT2抗体
描述	**兔多克隆抗体**to NMNAT2
宿主	Rabbit
经测试应用	**适用于:** WB, ICC/IF
种属反应性	**与反应:** Mouse, Rat, Human **预测可用于:** Chinese hamster
免疫原	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
阳性对照	WB: This antibody gave a positive signal in the following tissue lysates: Rat Brain; Mouse Brain; Rat Cortex; Mouse Cortex; Rat Forebrain. ICC/IF: This antibody gave a positive result in IF in the following Methanol fixed cell line: SKNSH
常规说明	The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

性能

形式	Liquid
存放说明	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
存储溶液	pH: 7.40 Preservative: 0.02% Sodium azide Constituent: PBS Batches of this product that have a concentration < 1mg/ml may have BSA added as a stabilising agent. If you would like information about the formulation of a specific lot, please contact our scientific support team who will be happy to help.
纯度	Immunogen affinity purified

克隆	**多克隆**
同种型	IgG

应用

The Abpromise guarantee **Abpromise™承诺保证使用ab110040于以下的经测试应用**

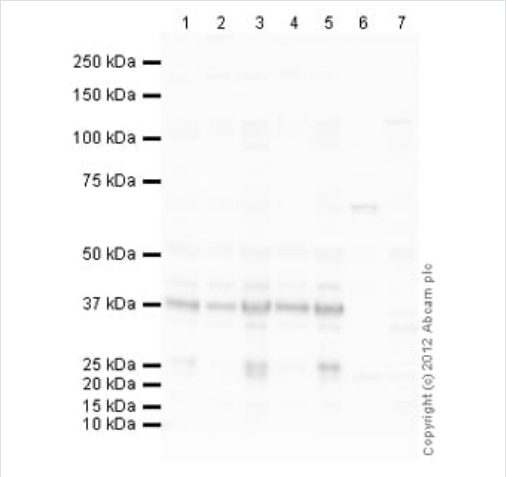
"应用说明"部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
WB	★☆☆☆☆ (1)	Use a concentration of 1 µg/ml. Detects a band of approximately 37 kDa (predicted molecular weight: 34 kDa).
ICC/IF		Use a concentration of 5 µg/ml.

靶标

功能	Catalyzes the formation of NAD(+) from nicotinamide mononucleotide (NMN) and ATP. Can also use the deamidated form; nicotinic acid mononucleotide (NaMN) as substrate but with a lower efficiency. Cannnot use triazofurin monophosphate (TrMP) as substrate. Also catalyzes the reverse reaction, i.e. the pyrophosphorolytic cleavage of NAD(+). For the pyrophosphorolytic activity prefers NAD(+), NADH and NAAD as substrates and degrades nicotinic acid adenine dinucleotide phosphate (NHD) less effectively. Fails to cleave phosphorylated dinucleotides NADP(+), NADPH and NAADP(+).
组织特异性	Highly expressed in brain, in particular in cerebrum, cerebellum, occipital lobe, frontal lobe, temporal lobe and putamen. Also found in the heart, skeletal muscle, pancreas and islets of Langerhans.
通路	Cofactor biosynthesis; NAD(+) biosynthesis; NAD(+) from nicotinamide D-ribonucleotide: step 1/1.
序列相似性	Belongs to the eukaryotic NMN adenylyltransferase family.
细胞定位	Cytoplasm. Golgi apparatus.

图片



Western blot - Anti-NMNAT2 antibody (ab110040)

All lanes : Anti-NMNAT2 antibody (ab110040) at 1 µg/ml

Lane 1 : Brain (Rat) Tissue Lysate
Lane 2 : Brain (Mouse) Tissue Lysate
Lane 3 : Rat Cortex Tissue Lysate
Lane 4 : Mouse Cortex Tissue Lysate
Lane 5 : Rat Forebrain Rat Tissue Lysate
Lane 6 : Lung (Rat) Tissue Lysate
Lane 7 : NIH 3T3 (Mouse embryonic fibroblast cell line) Whole Cell Lysate

Lysates/proteins at 10 µg per lane.

Secondary
All lanes : Goat Anti-Rabbit IgG H&L (HRP) preadsorbed (**ab97080**) at 1/5000 dilution

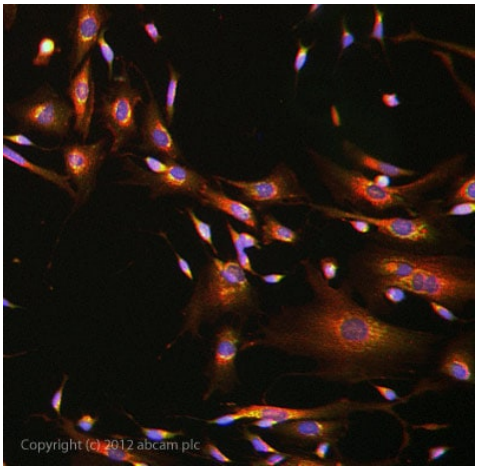
Developed using the ECL technique.

Performed under reducing conditions.

Predicted band size: 34 kDa
Observed band size: 37 kDa
Additional bands at: 24 kDa, 68 kDa. We are unsure as to the identity of these extra bands.

Exposure time: 1 minute

Both Rat Lung tissue lysate and NIH3T3 whole cell lysate were used as negative controls for Nicotinamide mononucleotide adenylyltransferase 2 (NMNAT2)



Immunocytochemistry/ Immunofluorescence - Anti-NMNAT2 antibody (ab110040)

ab110040 stained SKNSH cells. The cells were 100% methanol fixed (5 min) and then incubated in 1%BSA / 10% normal goat serum / 0.3M glycine in 0.1% PBS-Tween for 1h to permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody ab110040 at 5µg/ml overnight at +4°C. The secondary antibody (green) was DyLight® 488 goat anti- rabbit (**ab96899**) IgG (H+L) used at a 1/1000 dilution for 1h. Alexa Fluor® 594 WGA was used to label plasma membranes (red) at a 1/200 dilution for 1h. DAPI was used to stain the cell nuclei (blue) at a concentration of 1.43µM.

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