

Product datasheet

Anti-NMNAT3 antibody ab121030

1 Image

Overview

<b>Product name</b>	Anti-NMNAT3 antibody
<b>Description</b>	Goat polyclonal to NMNAT3
<b>Host species</b>	Goat
<b>Tested applications</b>	<b>Suitable for:</b> WB
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse <b>Predicted to work with:</b> Rat 
<b>Immunogen</b>	Synthetic peptide: C-KALGQGQSVKYLLE , corresponding to internal sequence amino acids 206-220 of Mouse NMNAT3 (NP_653116.1). <a href="#">Run BLAST with</a> <a href="#">Run BLAST with</a>
<b>Positive control</b>	Mouse heart lysate

Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
<b>Storage buffer</b>	pH: 7.30 Preservative: 0.02% Sodium azide Constituents: 99% Tris buffered saline, 0.5% BSA
<b>Purity</b>	Immunogen affinity purified
<b>Purification notes</b>	Purified from goat serum by ammonium sulphate precipitation, followed by antigen affinity chromatography using the immunizing peptide.
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab121030** in the following tested applications.

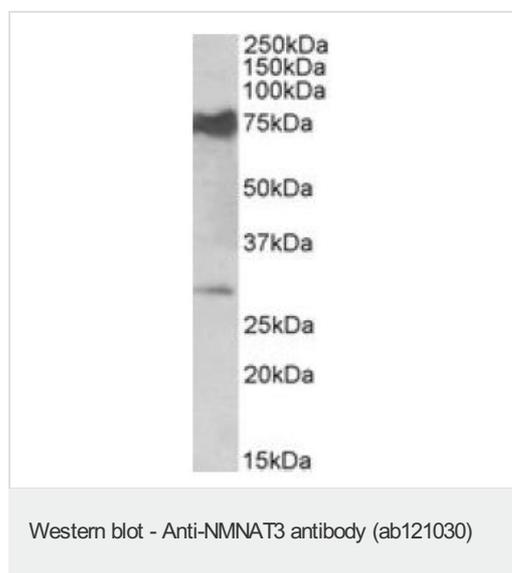
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		Use a concentration of 0.5 - 2 µg/ml. Detects a band of approximately 28 kDa (predicted molecular weight: 28 kDa). Can be blocked with <a href="#">ab185635</a> .

## Target

<b>Function</b>	Catalyzes the formation of NAD(+) from nicotinamide mononucleotide (NMN) and ATP. Can also use the deamidated form; nicotinic acid mononucleotide (NaMN) as substrate with the same efficiency. Can use triazofurin monophosphate (TrMP) as substrate. Can also use GTP and ITP as nucleotide donors. Also catalyzes the reverse reaction, i.e. the pyrophosphorolytic cleavage of NAD(+). For the pyrophosphorolytic activity, can use NAD (+), NADH, NAAD, nicotinic acid adenine dinucleotide phosphate (NAD), nicotinamide guanine dinucleotide (NGD) as substrates. Fails to cleave phosphorylated dinucleotides NADP(+), NADPH and NAADP(+). Protects against axonal degeneration following injury.
<b>Tissue specificity</b>	Expressed in lung and spleen with lower levels in placenta and kidney.
<b>Pathway</b>	Cofactor biosynthesis; NAD(+) biosynthesis; NAD(+) from nicotinamide D-ribonucleotide: step 1/1.
<b>Sequence similarities</b>	Belongs to the eukaryotic NMN adenylyltransferase family.
<b>Cellular localization</b>	Mitochondrion.

## Images



Anti-NMNAT3 antibody (ab121030) at 0.5 µg/ml + Mouse heart lysate at 35 µg

Developed using the ECL technique.

**Predicted band size:** 28 kDa

**Observed band size:** 28 kDa

**Additional bands at:** 75 kDa. We are unsure as to the identity of these extra bands.

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