

Product datasheet

Anti-NOS-1 antibody ab106535

1 Image

Overview

Product name	Anti-NOS-1 antibody
Description	Rabbit polyclonal to NOS-1
Host species	Rabbit
Tested applications	Suitable for: WB
Species reactivity	Reacts with: Rat
Immunogen	Synthetic peptide corresponding to Human NOS-1 (internal sequence). Database link: Q8WY41
Positive control	WB: Rat brain lysate.
General notes	<p>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.</p> <p>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</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at 4°C (stable for up to 12 months).
Storage buffer	pH: 7.2 Preservative: 0.02% Sodium azide Constituent: PBS
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab106535 in the following tested applications.

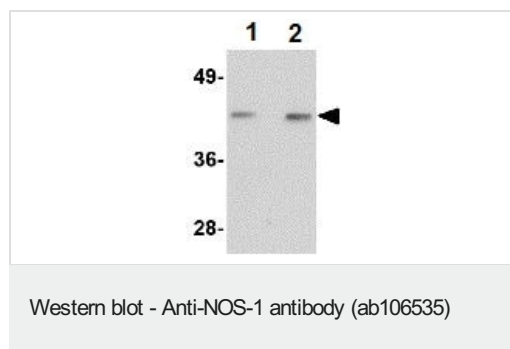
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		Use a concentration of 1 - 2 µg/ml. Predicted molecular weight: 30 kDa.

Target

Function	May act as a translational repressor which regulates translation of specific mRNAs by forming a complex with PUM2 that associates with the 3'-UTR of mRNA targets. Capable of interfering with the proadhesive and anti-invasive functions of E-cadherin. Up-regulates the production of MMP14 to promote tumor cell invasion.
Tissue specificity	Testis and ovary (at protein level). Predominantly expressed in testis. Specifically expressed during germline development. In adult tissues, it is mainly expressed in spermatogonia, the stem cells of the germline. Also expressed during meiosis in spermatocytes. Not present in late, post-meiotic stage germ cells. Expressed in fetal ovaries, while it is weakly or not expressed in mature postmeiotic oocytes, suggesting that it may be expressed in premeiotic female germ cells. Expressed at high levels only in the E-cadherin deficient cell lines. Highly expressed in lung carcinomas and mostly detected in invasive tumor cells and its expression correlates with tumor aggressiveness.
Sequence similarities	Belongs to the nanos family. Contains 1 nanos-type zinc finger.
Developmental stage	Fetal ovary and fetal testis (at protein level).
Domain	The Nanos-type zinc finger is composed of two C2HC motifs, each motif binding one molecule of zinc. It is essential for the translation repression activity of the protein. The N-terminal region and C-terminal zinc-finger RNA-binding domain are both necessary for interaction with SNAPIN.
Cellular localization	Cytoplasm > perinuclear region. Cytoplasm. Co-localizes with SNAPIN and PUM2 in the perinuclear region of germ cells.

Images



Lane 1 : Anti-NOS-1 antibody (ab106535) at 1 µg/ml

Lane 2 : Anti-NOS-1 antibody (ab106535) at 2 µg/ml

All lanes : Rat brain lysate

Lysates/proteins at 15 µg per lane.

Predicted band size: 30 kDa

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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