

Datasheet for ABIN500316

anti-Nanos Homolog 1 antibody (N-Term)**2** Images[Go to Product page](#)

Overview

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|----------------------|--|
| Quantity: | 0.1 mg |
| Target: | Nanos Homolog 1 (NANOS1) |
| Binding Specificity: | N-Term |
| Reactivity: | Human |
| Host: | Rabbit |
| Clonality: | Polyclonal |
| Conjugate: | This Nanos Homolog 1 antibody is un-conjugated |
| Application: | Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Enzyme Immunoassay (EIA) |

Product Details

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| Immunogen: | Nanos1 antibody was raised against a 17 amino acid peptide from near the amino terminus of human Nanos1. |
| Isotype: | IgG |
| Specificity: | This antibody detects NANOS1 at N-term. |
| Cross-Reactivity (Details): | Species reactivity (tested):Human |
| Purification: | Peptide affinity chromatography |

Target Details

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|---------|--------------------------|
| Target: | Nanos Homolog 1 (NANOS1) |
|---------|--------------------------|

Target Details

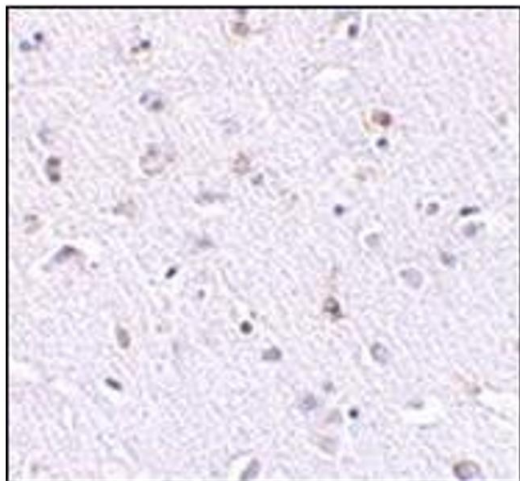
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|-------------------|--|
| Alternative Name: | NANOS1 (NANOS1 Products) |
| Background: | <p>Nanos1 is one of three known mammalian homologs to the Drosophila gene nanos. Nanos1 is an RNA-binding protein containing a zinc-finger motif and is expressed in the developing nervous system and continues in the adult brain. Interestingly, unlike mice deficient in either nanos2 or nanos3, mice lacking the nanos1 gene develop normally with no sign of abnormalities. Recently it has been found that expression of nanos1 mRNA is down-regulated by E-cadherin in a human breast cancer cell line and the amino-terminal domain on Nanos1 interacts with the E-cadherin-binding protein p120ctn. Furthermore, overexpression of Nanos1 in human colorectal DLD1 cancer cells functionally abolished cell-cell adhesion, allowing the cancer cells to develop strong migratory and invasive properties. These results suggest that targeting Nanos1 might prove an effective strategy in the treatment of E-cadherin-negative tumors. Synonyms: NOS1, Nanos homolog 1</p> |
| Gene ID: | 340719 |
| UniProt: | Q8WY41 |
| Pathways: | Negative Regulation of Hormone Secretion , Myometrial Relaxation and Contraction |

Application Details

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| Application Notes: | <p>ELISA. Western blot: 1 - 2 µg/mL. Immunohistochemistry on paraffin sections.</p> <p>Other applications not tested.</p> <p>Optimal dilutions are dependent on conditions and should be determined by the user.</p> |
| Restrictions: | For Research Use only |

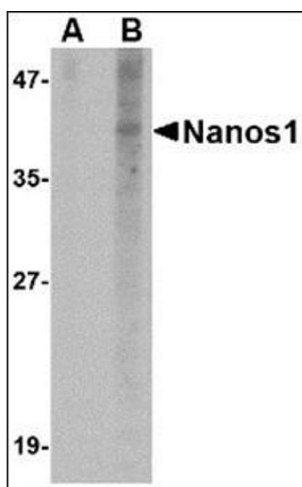
Handling

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|--------------------|--|
| Buffer: | PBS containing 0.02 % sodium azide |
| Preservative: | Sodium azide |
| Precaution of Use: | This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only. |
| Handling Advice: | Avoid repeated freezing and thawing. |
| Storage: | 4 °C/-20 °C |
| Storage Comment: | Store at 2 - 8 °C for up to one month or (in aliquots) at -20 °C for longer. |



Immunohistochemistry (Paraffin-embedded Sections)

Image 1. Immunohistochemistry of Nanos1 in human brain tissue with this product at 2.5 µg/ml



Western Blotting

Image 2. Western blot analysis of Nanos1 in SK-N-SH cell lysate with this product at 1 µg/ml in (A) the presence and (B) the absence of blocking peptide.