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BOSTER BIOLOGICAL TECHNOLOGY
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# Anti-Nanos homolog 1 Nanos1 Antibody

**Catalog Number:** A07276-1

## About NANOS1

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.

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## Overview

| | |
|---|---|
| Product Name | Anti-Nanos homolog 1 Nanos1 Antibody |
| Reactive Species | Human, Mouse, Rat |
| Description | Boster Bio Anti-Nanos homolog 1 Nanos1 Antibody (Catalog # A07276-1). Tested in ELISA, WB, IF applications. This antibody reacts with Human, Mouse, Rat. |
| Application | ELISA, IF, WB |
| Clonality | Polyclonal |
| Formulation | Nanos1 Antibody is supplied in PBS containing ≤0.09% sodium azide. |
| Storage Instructions | Nanos1 antibody can be stored at 4°C, stable for up to one year. Avoid repeated freeze-thaw cycles. Antibodies should not be exposed to prolonged high temperatures. |
| Host | Rabbit |
| Uniprot ID | Q8WY41 |

## Technical Details

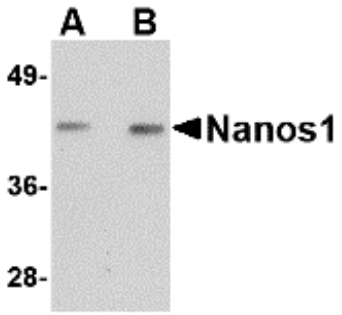
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|---|---|
| Immunogen | Nanos1 antibody was raised against a 14 amino acid synthetic peptide from near the center of human Nanos1. The immunogen is located within amino acids 160 - 210 of Nanos1. |

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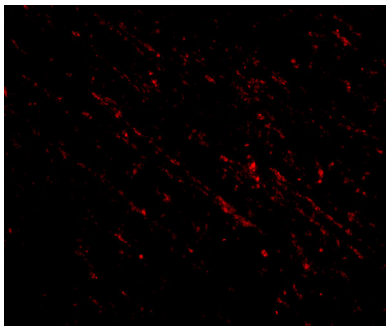
| | |
|---|---|
| Predicted Reactive Species | Mouse |
| Isotype | IgG |
| Form | Liquid |
| Concentration | 1 mg/mL |
| Purification | Nanos1 Antibody is affinity chromatography purified via peptide column. |
| Suggested Dilutions | Nanos1 antibody can be used for detection of Nanos1 by Western blot at 1 - 2 ug/mL. For immunofluorescence start at 20 ug/mL.<br>Antibody validated: Western Blot in rat samples and Immunofluorescence in human samples. All other applications and species not yet tested. Optimal dilutions for each application should be determined by the researcher. |

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# Anti-Nanos homolog 1 Nanos1 Antibody (A07276-1) Images




Western blot analysis of Nanos1 in rat brain tissue lysate with Nanos1 antibody at (A) 1 and (B) 2 ug/mL.



Immunofluorescence of nanos1 in human brain tissue with nanos1 antibody at 20 ug/mL.

Anti-Nanos homolog 1 Nanos1 Antibody

For Research Use Only. Not for use in diagnostic procedures.