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Nanos Homologue 1 (NANOS1) Antibody (C-term)
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP1407B

Specification

Nanos Homologue 1 (NANOS1) Antibody (C-term) - Product Information

Application	**IF, FC, WB, IHC-P,E**
Primary Accession	Q8WY41
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**30230**
Antigen Region	**263-292**

Nanos Homologue 1 (NANOS1) Antibody (C-term) - Additional Information

Gene ID 340719

Other Names
Nanos homolog 1, NOS-1, EC_Rep1a, NANOS1, NOS1

Target/Specificity
This Nanos Homologue 1 (NANOS1) antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 263-292 amino acids from the C-terminal region of human Nanos Homologue 1 (NANOS1).

Dilution
IF~~1:10~50
FC~~1:10~50
WB~~1:1000
IHC-P~~1:10~50
E~~Use at an assay dependent concentration.

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
Nanos Homologue 1 (NANOS1) Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Nanos Homologue 1 (NANOS1) Antibody (C-term) - Protein Information

Name NANOS1

Synonyms NOS1

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.

Cellular Location
Cytoplasm, perinuclear region. Cytoplasm Note=Colocalizes with SNAPIN and PUM2 in the perinuclear region of germ cells.

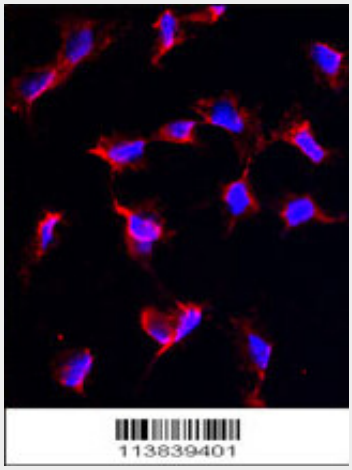
Tissue Location
Testis and ovary (at protein level). Predominantly expressed in testis. Specifically expressed during germline development. In adult tissues, it is mainly expressed in spermatogonia, the stem cells of the germline. Also expressed during meiosis in spermatocytes. Not present in late, post-meiotic 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.

Nanos Homologue 1 (NANOS1) Antibody (C-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

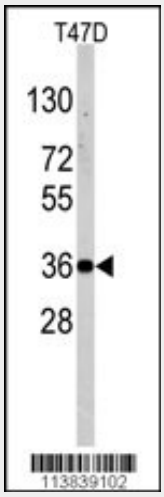
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Nanos Homologue 1 (NANOS1) Antibody (C-term) - Images

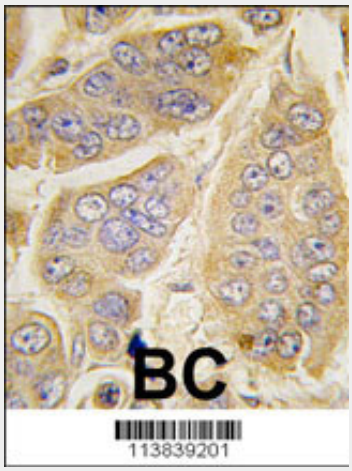


Immunofluorescence analysis of anti-NANOS1 Antibody (C-term) in HeLa cells. 0.025 mg/ml

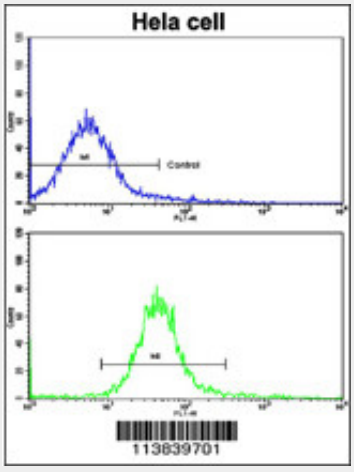
primary antibody was followed by Alexa-Fluor-546-conjugated donkey anti-rabbit IgG (H+L). Alexa-Fluor-546 emits orange fluorescence. Blue counterstaining is DAPI.



Western blot analysis of anti-NANOS1 Antibody (C-term) (RB13839) in T47D cell line lysates (35ug/lane). NANOS1 (arrow) was detected using the purified Pab.



Formalin-fixed and paraffin-embedded human breast carcinoma tissue reacted with NANOS1 antibody (C-term) (Cat.#AP1407b), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



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Flow cytometric analysis of hela cells using Nanos Homologue 1 (NANOS1) Antibody (C-term)(bottom histogram) compared to a negative control cell (top histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

Nanos Homologue 1 (NANOS1) Antibody (C-term) - Background

NANOS1 may regulate translation of specific mRNAs by forming a complex with PUM2 that associates with the 3'-UTR of mRNA targets.

Nanos Homologue 1 (NANOS1) Antibody (C-term) - References

Strumane,K., Cancer Res. 66 (20), 10007-10015 (2006)
Kurokawa,H., Dev. Growth Differ. 48 (3), 209-221 (2006)