

**Goat Anti-NANOS1 Antibody**  
**Peptide-affinity purified goat antibody**  
**Catalog # AF1708a****Specification**

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**Goat Anti-NANOS1 Antibody - Product Information**

Application	WB, E
Primary Accession	<a href="#">Q8WY41</a>
Other Accession	<a href="#">NP_955631</a> , <a href="#">340719</a>
Reactivity	Human
Host	Goat
Clonality	Polyclonal
Concentration	100ug/200ul
Isotype	IgG
Calculated MW	30230

**Goat Anti-NANOS1 Antibody - Additional Information****Gene ID** 340719**Other Names**

Nanos homolog 1, NOS-1, EC\_Rep1a, NANOS1, NOS1

**Dilution**

WB~~1:1000

E~~N/A

**Format**

0.5 mg IgG/ml in Tris saline (20mM Tris pH7.3, 150mM NaCl), 0.02% sodium azide, with 0.5% bovine serum albumin

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

Goat Anti-NANOS1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**Goat Anti-NANOS1 Antibody - 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.

#### **Goat Anti-NANOS1 Antibody - Protocols**

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

#### **Goat Anti-NANOS1 Antibody - Images**



AF1708a (0.3 µg/ml) staining of Human Testis lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

#### **Goat Anti-NANOS1 Antibody - References**

The SNARE-associated component SNAPIN binds PUMILIO2 and NANOS1 proteins in human male

germ cells. Ginter-Matuszewska B, et al. Mol Hum Reprod, 2009 Mar. PMID 19168546.  
The E-cadherin-repressed hNanos1 gene induces tumor cell invasion by upregulating MT1-MMP expression. Bonnomet A, et al. Oncogene, 2008 Jun 12. PMID 18223680.  
E-cadherin regulates human Nanos1, which interacts with p120ctn and induces tumor cell migration and invasion. Strumane K, et al. Cancer Res, 2006 Oct 15. PMID 17047063.  
Time-lapse analysis reveals different modes of primordial germ cell migration in the medaka *Oryzias latipes*. Kurokawa H, et al. Dev Growth Differ, 2006 Apr. PMID 16573738.  
The DNA sequence and comparative analysis of human chromosome 10. Deloukas P, et al. Nature, 2004 May 27. PMID 15164054.