

NANOS1 Antibody (N-term) Blocking Peptide
Synthetic peptide
Catalog # BP1407a**Specification**

NANOS1 Antibody (N-term) Blocking Peptide - Product InformationPrimary Accession [Q8WY41](#)**NANOS1 Antibody (N-term) Blocking Peptide - Additional Information****Gene ID** 340719**Other Names**

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

Target/Specificity

The synthetic peptide sequence used to generate the antibody [AP1407a](/product/products/AP1407a) was selected from the N-term region of human NANOS1. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

NANOS1 Antibody (N-term) Blocking Peptide - 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.

NANOS1 Antibody (N-term) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

NANOS1 Antibody (N-term) Blocking Peptide - Images

NANOS1 Antibody (N-term) Blocking Peptide - Background

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

NANOS1 Antibody (N-term) Blocking Peptide - References

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