

Nanos3 Polyclonal Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP54237**Specification****Nanos3 Polyclonal Antibody - Product Information**

Application	WB, IHC-P, IHC-F, IF, ICC, E
Primary Accession	P60323
Reactivity	Rat, Pig, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	19 KDa
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human Nanos3
Epitope Specificity	101-173/173
Isotype	IgG
Purity	
affinity purified by Protein A	
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Secreted, extracellular space, extracellular matrix, basement membrane.
SIMILARITY	Contains 5 EGF-like domains.Contains 5 LDL-receptor class B repeats.Contains 1 NIDO domain.Contains 1 nidogen G2 beta-barrel domain.Contains 2 thyroglobulin type-1 domains.
SUBUNIT	Interacts with LAMA2. Interacts with COL13A1.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

Background Descriptions

Nidogens are highly conserved proteins present in vertebrate and invertebrate basement membranes. Nidogens connect the Laminin and Collagen IV networks and integrate other proteins into the membrane. In mammals, two Nidogen proteins, Nidogen and Nidogen-2, interact at comparable levels with Collagen I, IV and Perlecan, serving to stabilize basement membranes and playing a major role in embryogenesis. The two isoforms have a similar shape, consisting of three globular domains, and co-localize in vessel walls and other basement membrane zones. Nidogen-2 is a cell adhesion protein glycosylated at nitrogen and oxygen sites, and is widely distributed in basement membranes in heart, placenta, bone and, to a lesser extent, in pancreas, kidney and skeletal muscle.

Nanos3 Polyclonal Antibody - Additional Information**Gene ID 342977**

Other Names

Nanos homolog 3, NOS-3, NANOS3, NOS3

Target/Specificity

Heart, placenta and bone. Less in pancreas, kidney and skeletal muscle.

Dilution

WB~~1:1000<br \>IHC-P~~N/A<br \>IHC-F~~N/A<br \>IF~~1:50~200<br \>ICC~~N/A<br \>E~~N/A

Storage

Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Nanos3 Polyclonal Antibody - Protein Information

Name NANOS3

Synonyms NOS3

Function

Plays a role in the maintenance of the undifferentiated state of germ cells regulating the spermatogonia cell cycle and inducing a prolonged transit in G1 phase. Affects cell proliferation probably by repressing translation of specific mRNAs. Maintains the germ cell lineage by suppressing both Bax-dependent and -independent apoptotic pathways. Essential in the early stage embryo to protect the migrating primordial germ cells (PGCs) from apoptosis.

Cellular Location

Nucleus. Cytoplasm. Cytoplasm, Stress granule {ECO:0000250|UniProtKB:P60324}. Cytoplasm, P-body {ECO:0000250|UniProtKB:P60324}. Note=Co-localizes with PUM2, EIF2S1 and TIAL1 in the stress granules. Co-localizes with DCP1A in the P-body {ECO:0000250|UniProtKB:P60324}

Tissue Location

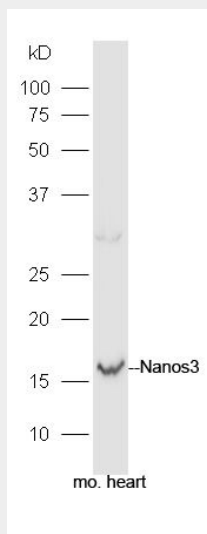
Ovary, testis and brain (at protein level). In the ovaries, expressed during multiple stages of oogenesis, including primordial, primary, secondary and antral follicles with the highest expression in the oocytes. In the testis, expressed in germ cells, type A spermatogonia (SA), primary spermatocytes (S1), round spermatids (S3) and elongated spermatids.

Nanos3 Polyclonal 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](#)

Nanos3 Polyclonal Antibody - Images



Protein: heart(mouse) lysate at 40ug;
Primary: rabbit Anti-Nanos3 (bs-10227R) at 1:300;
Secondary: HRP conjugated Goat-Anti-rabbit IgG(bs-0295G-HRP) at 1: 5000;
Predicted band size: 19 kD
Observed band size: 17 kD