

Nanos3 Rabbit pAb

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Catalog # AP54237

Product Information

Application	WB
Primary Accession	P60323
Reactivity	Mouse
Predicted	Rat, Pig, Human, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	18844
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.
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.

Additional Information

Gene ID	342977
Other Names	Nanos homolog 3, NOS-3, NANOS3, NOS3
Dilution	WB=1:500-2000
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.

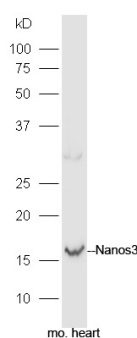
Protein Information

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.

Background

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Images



Protein: heart(mouse) lysate at 40ug;
Primary: rabbit Anti-Nanos3 (AP54237) at 1:300;
Secondary: HRP conjugated Goat-Anti-rabbit
IgG(AP54237-HRP) at 1: 5000;
Predicted band size: 19 kD
Observed band size: 17 kD

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.