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BOSTER BIOLOGICAL TECHNOLOGY
3942 B Valley Ave, Pleasanton, CA 94566
888-466-3604 | support@bosterbio.com | www.bosterbio.com

Anti-Nanos homolog 3 Nanos3 Antibody

Catalog Number: A07449

About NANOS3

Nanos is a zinc-finger containing, RNA-binding protein that has been implicated in germ cell development in both invertebrates and vertebrates. In Drosophila, Nanos represses apoptosis during development to ensure proper germ-line development. Unlike Nanos1 whose expression in mice is dispensable, the Nanos2 and Nanos3 proteins are required for germ cell development. Nanos2-null primordial germ cells (PGCs) die only in the male gonads and show no defects in females, while Nanos3-null PGCs are lost during the migration stage regardless of sex. Nanos2 and Nanos3 have distinct expression patterns during embryo development, suggesting that these two proteins do not have redundant functions. However, expression of Nanos2 can at least partially replace Nanos3 function in a Nanos3-null background. Nanos3 expression can not rescue Nanos2-null defects.

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Overview

Product Name	Anti-Nanos homolog 3 Nanos3 Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-Nanos homolog 3 Nanos3 Antibody (Catalog # A07449). Tested in ELISA, WB, IHC-P, IF applications. This antibody reacts with Human, Mouse, Rat.
Application	ELISA, IF, IHC-P, WB
Clonality	Polyclonal
Formulation	Nanos3 Antibody is supplied in PBS containing ≤0.09% sodium azide.
Storage Instructions	Nanos3 antibody can be stored at 4°C, stable for up to one year. Avoid repeated freeze-thaw cycles. Antibodies should not be exposed to prolonged high temperatures.
Host	Rabbit
Uniprot ID	P60323

Technical Details

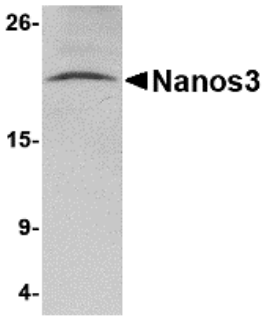
Immunogen	Nanos3 antibody was raised against a 16 amino acid synthetic peptide near the carboxy terminus of the human Nanos3. The immunogen is located within the last 50 amino acids of Nanos3.

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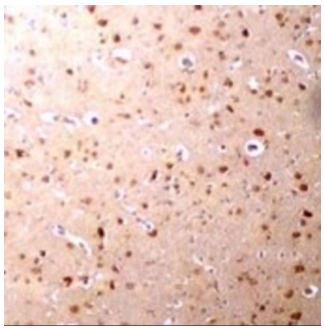
Predicted Reactive Species	Mouse
Cross Reactivity	This Nanos3 antibody will not cross-react with either Nanos 1 or Nanos2.
Isotype	IgG
Form	Liquid
Concentration	1 mg/mL
Purification	Nanos3 Antibody is affinity chromatography purified via peptide column.
Suggested Dilutions	Nanos3 antibody can be used for detection of Nanos3 by Western blot at 2 ug/mL. Antibody can also be used for immunohistochemistry starting at 2.5 ug/mL. For immunofluorescence start at 20 ug/mL. Antibody validated: Western Blot in human samples; Immunohistochemistry in human samples and Immunofluorescence in human samples. All other applications and species not yet tested. Optimal dilutions for each application should be determined by the researcher.

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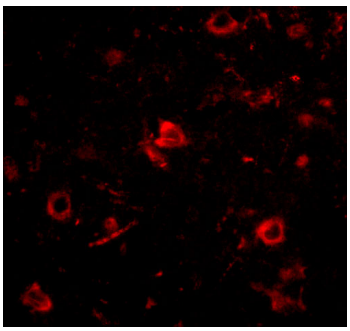
Anti-Nanos homolog 3 Nanos3 Antibody (A07449) Images



Western blot analysis of Nanos3 in human brain tissue lysate with Nanos3 antibody at 2 ug/mL.



Immunohistochemistry of Nanos3 in human brain tissue with Nanos3 antibody at 2.5 ug/mL.



Immunofluorescence of Nanos3 in Human Brain tissue with Nanos3 antibody at 20 ug/mL.

Anti-Nanos homolog 3 Nanos3 Antibody

For Research Use Only. Not for use in diagnostic procedures.