

## Product datasheet for **TA306596**

### **NANOS3 Rabbit Polyclonal Antibody**

#### **Product data:**

Product Type:	Primary Antibodies
Applications:	IF, IHC, WB
Recommended Dilution:	WB: 2 ug/mL, ICC: 2.5 ug/mL, IF: 20 ug/mL
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Nanos3 antibody was raised against a 16 amino acid peptide near the carboxy terminus of the human Nanos3.
Formulation:	PBS containing 0.02% sodium azide.
Concentration:	1ug/ul
Purification:	Affinity chromatography purified via peptide column
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	nanos homolog 3 (Drosophila)
Database Link:	<a href="#">NP_001092092</a> <a href="#">Entrez Gene 244551 Mouse</a> <a href="#">Entrez Gene 288909 Rat</a> <a href="#">Entrez Gene 342977 Human</a> <a href="#">P60323</a>



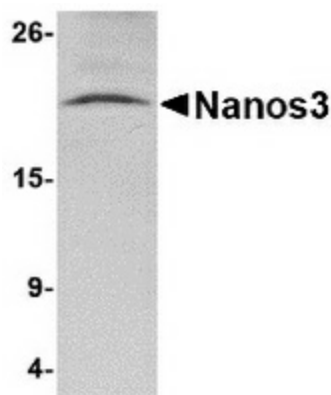
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**Background:**

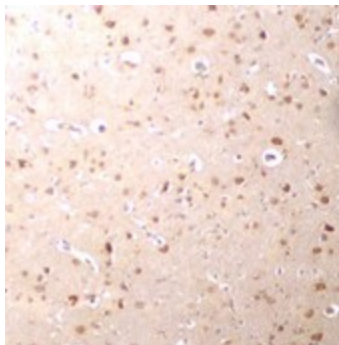
Nanos is a zinc-finger containing, RNA-binding protein that has been implicated in germ cell development in both invertebrates and vertebrates. In drosophila, Nanos represses apoptosis during development to ensure proper germ-line development. Unlike Nanos1 whose expression in mice is dispensable, the 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. This Nanos3 antibody will not cross-react with either Nanos 1 or Nanos2.

**Synonyms:**

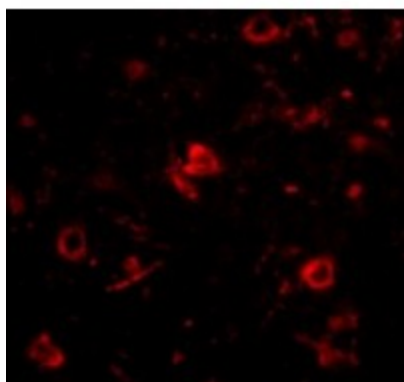
NANOS1L; NOS3

**Product 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.