

Product datasheet for **TA306605**

NANOS1 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IF, IHC, WB
Recommended Dilution:	WB: 1 ug/mL, ICC: 2.5 ug/mL, IF: 20 ug/mL
Reactivity:	Human
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Nanos1 antibody was raised against a 17 amino acid peptide from near the amino terminus of human Nanos1.
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 1 (Drosophila)
Database Link:	NP_955631 Entrez Gene 340719 Human Q8WY41



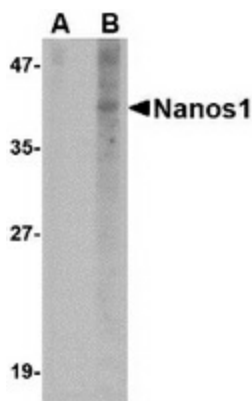
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Background:

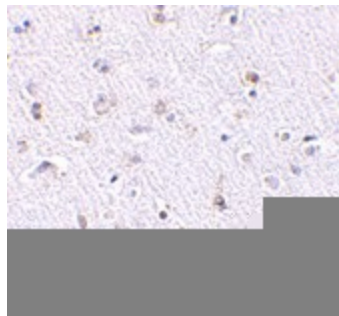
Nanos1 is one of three known mammalian homologs to the *Drosophila* gene *nanos*. Nanos1 is an RNA-binding protein containing a zinc-finger motif and is expressed in the developing nervous system and continues in the adult brain. Interestingly, unlike mice deficient in either *nanos2* or *nanos3*, mice lacking the *nanos1* gene develop normally with no sign of abnormalities. Recently it has been found that expression of *nanos1* mRNA is down-regulated by E-cadherin in a human breast cancer cell line and the amino-terminal domain on Nanos1 interacts with the E-cadherin-binding protein p120ctn. Furthermore, overexpression of Nanos1 in human colorectal DLD1 cancer cells functionally abolished cell-cell adhesion, allowing the cancer cells to develop strong migratory and invasive properties. These results suggest that targeting Nanos1 might prove an effective strategy in the treatment of E-cadherin-negative tumors.

Synonyms:

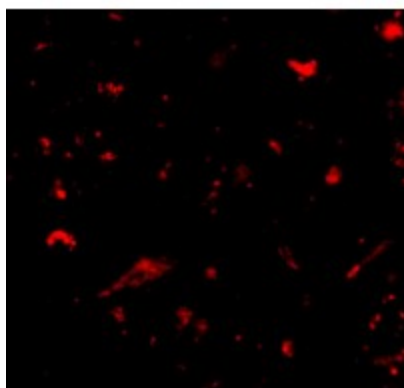
EC_Rep1a; NOS-1; NOS1; SPGF12; ZC2HC12A

Product images:


Western blot analysis of Nanos1 in SK-N-SH cell lysate with Nanos1 antibody at 1 ug/ml in (A) the presence and (B) the absence of blocking peptide.



Immunohistochemistry of Nanos1 in human brain tissue with Nanos1 antibody at 2.5 ug/ml



Immunofluorescence of nanos1 in human brain tissue with nanos1 antibody at 20 ug/mL.