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Datasheet for 600-401-CY7

NANOS1 Antibody

Overview

Description:	Anti-NANOS1 (RABBIT) Antibody - 600-401-CY7
Item No.:	600-401-CY7
Size:	100 µg
Applications:	ELISA, IF, IHC, WB
Reactivity:	Human
Host Species:	Rabbit

Product Details

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:	Nanos1 Antibody, NOS1, SPGF12, NOS1, Nanos homolog 1, NOS-1
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	NANOS1
Reactivity:	Human
Immunogen Type:	Conjugated Peptide

Immunogen:	Anti-Nanos1 antibody was prepared from whole rabbit serum produced by repeated immunizations with a 17 amino acid synthetic peptide from near the N-terminus of human Nanos1.
Purity/Specificity:	Anti-Nanos1 Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. Cross reactivity with Nanos1 from other sources has not been determined.
Relevant Links:	• UniProtKB - Q8WY41 • GeneID - 340719 • NCBI - Q8WY41

Application Details

Tested Applications:	ELISA, IF, IHC, WB
Application Note:	Anti-Nanos1 Antibody has been tested for use in ELISA, Western Blotting, Immunohistochemistry and Immunofluorescence. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 30 kDa in Western Blots of specific cell lysates and tissues.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:10,000
IF:	20 µg/mL
IHC:	2.5 µg/mL
WB:	1 µg/mL

Formulation

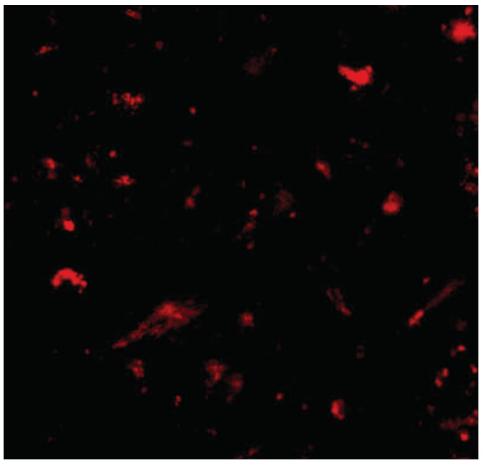
Physical State:	Liquid (sterile filtered)
Concentration:	1 mg/mL by UV absorbance at 280 nm
Buffer:	0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2
Preservative:	0.02% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

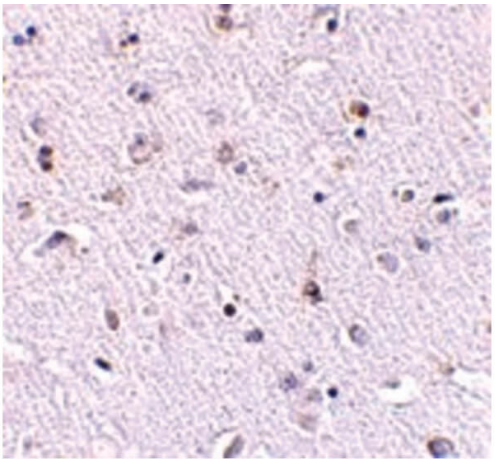
Shipping Condition:	Dry Ice

Storage Condition:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiration:	Expiration date is one (1) year from date of receipt.

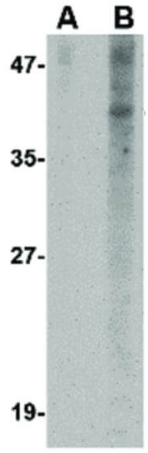
Images



Immunofluorescence Microscopy
Immunofluorescence Microscopy of Nanos1 antibody. Tissue: Human brain tissue. Fixation: 0.5% PFA. Antigen retrieval: not required. Primary antibody: Nanos1 antibody at 20 µg/mL for 1 h at RT. Secondary antibody: Fluorescein rabbit secondary antibody at 1:10,000 for 45 min at RT. Staining: Nanos1 as red fluorescent signal.



Immunohistochemistry
Immunohistochemistry of Nanos1 antibody. Tissue: Human brain tissue. Fixation: formalin fixed paraffin embedded. Antigen retrieval: not required. Primary antibody: Nanos1 antibody at 2.5 µg/mL for 1 h at RT. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: Nanos1 is nuclear and occasionally cytoplasmic. Staining: Nanos1 as a precipitated red signal with hematoxylin purple nuclear counterstain.



Western Blot

Western Blot of Nanos1 antibody. Lane A: SK-N-SH cell lysate in the presence of blocking peptide. Lane B: SK-N-SH cell lysate in the absence of blocking peptide. Load: 35 µg per lane. Primary Antibody: Anti-Nanos at 1 µg/mL. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: 30.2 kDa, ~40 kDa for Nanos1.

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