Datasheet for ABIN1387892

anti-Neuronatin (NNAT) (AA 31-81) antibody

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2 Publications

Overview

Quantity:	100 µL
Target:	Neuronatin (NNAT)
Binding Specificity:	AA 31-81
Reactivity:	Human, Rat, Pig
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	Un-conjugated
Application:	Western Blotting (WB), Immunocytochemistry (ICC), Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p)), Immunohistochemistry (Frozen Sections) (IHC (fro)), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Immunogen:	KLH conjugated synthetic peptide derived from human Neuronatin
Isotype:	IgG
Cross-Reactivity:	Human, Pig, Rat
Predicted Reactivity:	Mouse,Cow,Rabbit
Purification:	Purified by Protein A.

Target Details

Target:	Neuronatin (NNAT)

Target Details

Alternative Name:	Neuronatin (NNAT Products)
Background:	Synonyms: Neuronatin, Nnat, NNAT_HUMAN, Peg 5, Peg5. Background: The paternally imprinted Neuronatin gene (NNAT) is initially expressed in rhombomeres and the pituitary gland and is later expressed more widely, but much less abundantly, in the central and peripheral nervous systems. The human NNAT gene maps to chromosome 20q11.23 and contains an imprinting region associated with morphological abnormalities and early neonatal lethality. Specifically, hypermethylation of the NNAT gene occurs in both myeloid and lymphoid acute pediatric leukemias and may inhibit NNAT expression. The Neuronatin protein consists of two isoforms, alpha and beta, which are the products of alternative splicing. The alpha form of the Neuronatin gene is encoded by three exons, whereas the beta form is missing the second exon. Neuronatin mRNA expression is abundant in undifferentiated PC-12 cells. Treatment of these cells with nerve growth factor (NGF), which contributes to neuronal differentiation, downregulates Neuronatin mRNA expression. NNAT (-) 1.9 PC-12 cells exhibit an increase in nigericin, rotenone and valinomcin sensitivity, NNAT transfection restores wild-type PC-12 resistance. These results suggests a potential protective role for Neuronatin against toxic insult during development.
Gene ID:	4826
UniProt:	Q16517
Pathways:	Positive Regulation of Peptide Hormone Secretion

Application Details

Application Notes:	WB 1:300-5000
	IHC-P 1:200-400
	IHC-F 1:100-500
	IF(IHC-P) 1:50-200
	IF(IHC-F) 1:50-200
	IF(ICC) 1:50-200
	ICC 1:100-500

Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	1 µg/µL

Handling

Buffer:	0.01M TBS(pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.
Expiry Date:	12 months

Publications

Product cited in:	Gao, Chen, Wang, Nie, Zhang, Miao: "Oocyte aging-induced Neuronatin (NNAT) hypermethylation affects oocyte quality by impairing glucose transport in porcine." in: **Scientific reports**, Vol. 6, pp. 36008, (2018) (PubMed).