

Datasheet for ABIN751063
anti-AANAT antibody (AA 141-207)

6 Images

2 Publications

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Overview

Quantity:	100 µL
Target:	AANAT
Binding Specificity:	AA 141-207
Reactivity:	Human, Rat, Mouse, Sheep
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This AANAT antibody is un-conjugated
Application:	ELISA, Western Blotting (WB), Immunofluorescence (Paraffin-embedded Sections) (IF (p)), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunohistochemistry (Frozen Sections) (IHC (fro)), Immunofluorescence (Cultured Cells) (IF (cc))

Product Details

Immunogen:	KLH conjugated synthetic peptide derived from human AANAT
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat, Sheep
Predicted Reactivity:	Dog
Purification:	Purified by Protein A.

Target Details

Target:	AANAT
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Target Details

Alternative Name:	Aanat (AANAT Products)
Background:	<p>Synonyms: DSPS, SNAT, Serotonin N-acetyltransferase, Serotonin acetylase, Aralkylamine N-acetyltransferase, AA-NAT, AANAT</p> <p>Background: Controls the night/day rhythm of melatonin production in the pineal gland.</p> <p>Catalyzes the N-acetylation of serotonin into N-acetylserotonin, the penultimate step in the synthesis of melatonin.</p>
Gene ID:	15
UniProt:	Q16613
Pathways:	Photoperiodism

Application Details

Application Notes:	<p>WB 1:300-5000</p> <p>ELISA 1:500-1000</p> <p>IHC-P 1:200-400</p> <p>IHC-F 1:100-500</p> <p>IF(IHC-P) 1:50-200</p> <p>IF(IHC-F) 1:50-200</p> <p>IF(ICC) 1:50-200</p>
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	1 µg/µL
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

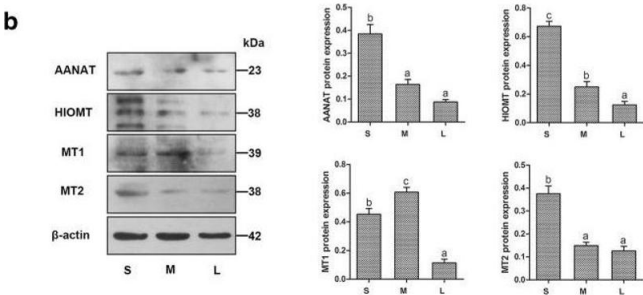
Product cited in: Xiao, Hu, Song, Zhang, Dong, Jiang, Zhang, Yuan, Zhao: "Profile of melatonin and its receptors and synthesizing enzymes in cumulus-oocyte complexes of the developing sheep antral follicle- a potential estradiol-mediated mechanism." in: **Reproductive biology and endocrinology : RB&E**, Vol. 17, Issue 1, pp. 1, (2019) ([PubMed](#)).

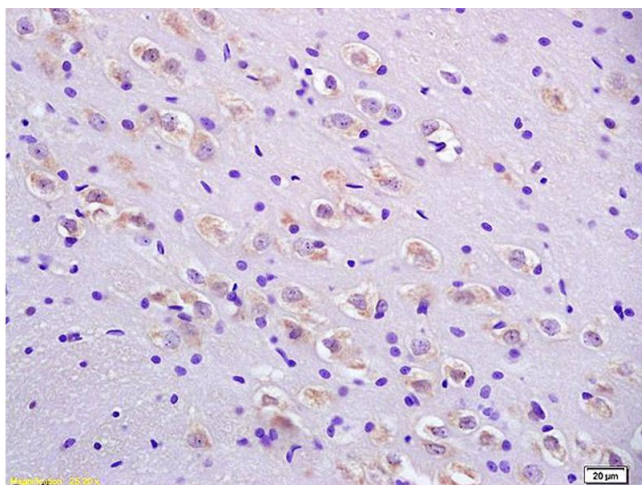
Ahn, Park, Kim, Lee, Yan, Yong, Lee, CHoi, Yoo, Hwang, Moon, Shin, Won: "Comparison of arylalkylamine N-acetyltransferase and melatonin receptor type 1B immunoreactivity between young adult and aged canine spinal cord." in: **Journal of veterinary science**, Vol. 15, Issue 3, pp. 335-42, (2016) ([PubMed](#)).

Images

Western Blotting

Image 1. Relative expression of AANAT, HIOMT, MT1, and MT2 in COCs of follicles of different sizes. a The relative expression of AANAT, HIOMT, MT1, and MT2 mRNA. Independent experiments were performed three times, with β -actin as an internal control. b Western blotting of AANAT, HIOMT, MT1, MT2 and the relative expression of AANAT, HIOMT, MT1, and MT2 protein in COCs of follicles of different sizes. β -actin was used as an internal control. Data are means \pm SEM. Different superscript letters (a-c) indicate statistically significant differences ($P<0.05$). S: small follicle, M: medium follicle, L: large follicle - figure provided by CiteAb. Source: PMID30606208





Immunohistochemistry

Image 2. Formalin-fixed and paraffin embedded human brain tissue labeled with Anti-AANAT Polyclonal Antibody, Unconjugated (ABIN751063) at 1:200 followed by conjugation to the secondary antibody Goat Anti-Rabbit IgG, PE conjugated used at 1:200 dilution for 40 minutes at 37°C



Immunofluorescence

Image 3. Formalin-fixed and paraffin embedded rat brain labeled with Anti-AANAT Polyclonal Antibody, Unconjugated (ABIN751063) at 1:200 followed by conjugation to the secondary antibody and DAB staining

Please check the [product details page](#) for more images. Overall 6 images are available for ABIN751063.