Datasheet for ABIN540804

anti-AANAT antibody

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Overview

Quantity:	100 µL
Target:	AANAT
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This AANAT antibody is un-conjugated
Application:	Western Blotting (WB), Immunocytochemistry (ICC)

Product Details

Purpose:	Rabbit polyclonal antibody raised against AANAT.
Immunogen:	Human AANAT.
Specificity:	This antibody is specific to primate AANAT.
Cross-Reactivity:	Human, Monkey, Primate
Characteristics:	Antibody Reactive Against AANAT.

Target Details

Target:	AANAT
Alternative Name:	Serotonin Acetylase (AANAT Products)
Gene ID:	15
Pathways:	Photoperiodism

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Application Details

Application Notes:	Western Blot (1:500-1:1000) Immunocytochemistry (1:200) The optimal working dilution should be determined by the end user.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	In PBS (0.1 % BSA, 0.05 % thimerosal)
Preservative:	Thimerosal (Merthiolate)
Precaution of Use:	This product contains Thimerosal (Merthiolate): a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Store at 4°C for short term. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.

Publications

Product cited in:

Klein: "Arylalkylamine N-acetyltransferase: "the Timezyme"." in: **The Journal of biological chemistry**, Vol. 282, Issue 7, pp. 4233-7, (2007) (PubMed).

Klein, Ganguly, Coon, Weller, Obsil, Hickman, Dyda: "14-3-3 Proteins and photoneuroendocrine transduction: role in controlling the daily rhythm in melatonin." in: **Biochemical Society transactions**, Vol. 30, Issue 4, pp. 365-73, (2002) (PubMed).

Iuvone, Brown, Haque, Weller, Zawilska, Chaurasia, Ma, Klein: "Retinal melatonin production: role of proteasomal proteolysis in circadian and photic control of arylalkylamine N-acetyltransferase." in: **Investigative ophthalmology & visual science**, Vol. 43, Issue 2, pp. 564-72, (2002) (PubMed).

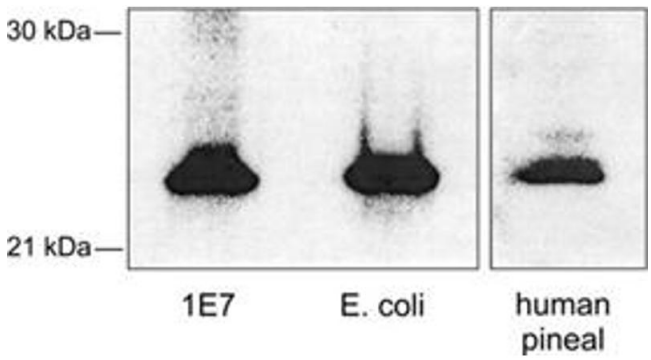
Coon, Del Olmo, Young, Klein: "Melatonin synthesis enzymes in Macaca mulatta: focus on arylalkylamine N-acetyltransferase (EC 2.3.1.87)." in: **The Journal of clinical endocrinology and metabolism**, Vol. 87, Issue 10, pp. 4699-706, (2002) (PubMed).

Coon, Weller, Korf, Namboodiri, Rollag, Klein: "cAmp regulation of arylalkylamine N-

Publications

acetyltransferase (AANAT, EC 2.3.1.87): a new cell line (1E7) provides evidence of intracellular AANAT activation." in: **The Journal of biological chemistry**, Vol. 276, Issue 26, pp. 24097-107, (2001) (PubMed).

Images



Western Blotting

Image 1. Western blot analysis of AANAT using AANAT polyclonal antibody . Samples of 1E7 homogenates and bacterially expressed hAANAT were loaded, which contained similar levels of AANAT activity.

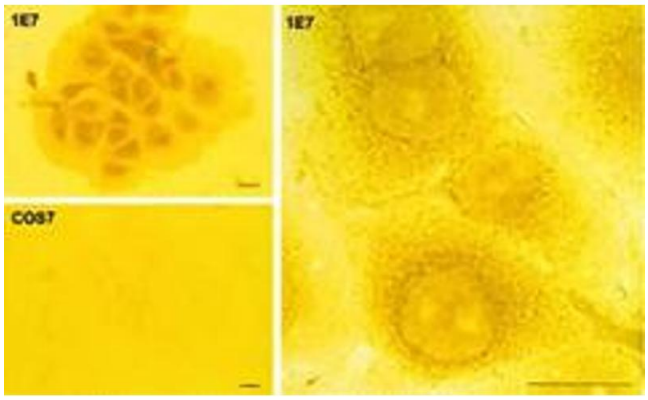


Image 2. AANAT in COS-7 and 1E7 cells detected by ICC using AANAT polyclonal antibody (PAB12505). Cells were grown on two-well chamber slides and fixed with 2.5% glutaraldehyde; 1E7 cells treated with FSK for 3 h (two magnifications). COS, COS-7 cells treated with FSK for 3 h.

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