

## Product datasheet for **CF810171**

### Serotonin N acetyltransferase (AANAT) Mouse Monoclonal Antibody [Clone ID: OTI3B9]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI3B9
Applications:	WB
Recommended Dilution:	WB 1:2000
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Human recombinant protein fragment corresponding to amino acids 1-72 of human AANAT (NP_001079) produced in E.coli.
Formulation:	Lyophilized powder (original buffer 1X PBS, pH 7.3, 8% trehalose)
Reconstitution Method:	For reconstitution, we recommend adding 100uL distilled water to a final antibody concentration of about 1 mg/mL. To use this carrier-free antibody for conjugation experiment, we strongly recommend performing another round of desalting process. (OriGene recommends Zeba Spin Desalting Columns, 7KMWCO from Thermo Scientific)
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	23.2 kDa
Gene Name:	aralkylamine N-acetyltransferase
Database Link:	<a href="#">NP_001079</a> <a href="#">Entrez Gene 15 Human</a> <a href="#">Q16613</a>



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**Background:**

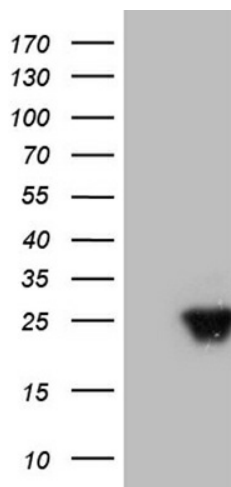
The protein encoded by this gene belongs to the acetyltransferase superfamily. It is the penultimate enzyme in melatonin synthesis and controls the night/day rhythm in melatonin production in the vertebrate pineal gland. Melatonin is essential for the function of the circadian clock that influences activity and sleep. This enzyme is regulated by cAMP-dependent phosphorylation that promotes its interaction with 14-3-3 proteins and thus protects the enzyme against proteasomal degradation. This gene may contribute to numerous genetic diseases such as delayed sleep phase syndrome. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Oct 2009]

**Synonyms:**

DSPS; SNAT

**Protein Pathways:**

Metabolic pathways, Tryptophan metabolism

**Product images:**

HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY AANAT (Cat# [RC210142], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-AANAT (Cat# [TA810171])(1:2000). Positive lysates [LY421333] (100ug) and [LC421333] (20ug) can be purchased separately from OriGene.