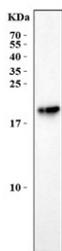


## Aanat Antibody (RQ6914)

Catalog No.	Formulation	Size
RQ6914	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

[Bulk quote request](#)

<b>Availability</b>	1-3 business days
<b>Species Reactivity</b>	Mouse
<b>Format</b>	Antigen affinity purified
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal (rabbit origin)
<b>Isotype</b>	Rabbit IgG
<b>Purity</b>	Antigen affinity purified
<b>Buffer</b>	Lyophilized from 1X PBS with 2% Trehalose
<b>UniProt</b>	O88816
<b>Applications</b>	Western Blot : 0.5-1 ug/ml Direct ELISA : 0.1-0.5ug/ml
<b>Limitations</b>	This Aanat antibody is available for research use only.



Western blot testing of mouse eye lysate with Aanat antibody. Predicted molecular weight ~23 kDa.

## Description

Aralkylamine N-acetyltransferase (AANAT) (EC 2.3.1.87), also known as arylalkylamine N-acetyltransferase or serotonin N-acetyltransferase (SNAT), is an enzyme that is involved in the day/night rhythmic production of melatonin, by modification of serotonin. It is in humans encoded by the ~2.5 kb AANAT gene containing four exons, located on chromosome 17q25. 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. Alternative splicing results in multiple transcript variants.

## **Application Notes**

Optimal dilution of the Aanat antibody should be determined by the researcher.

## **Immunogen**

Recombinant mouse Aanat protein (amino acids C24-C205) was used as the immunogen for the Aanat antibody.

## **Storage**

After reconstitution, the Aanat antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.