AANAT Antibody (F51822)

Catalog No.	Formulation	Size
F51822-0.4ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.4 ml
F51822-0.08ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.08 ml

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Purity	Antigen affinity
UniProt	Q16613
Applications	Western Blot : 1:1000
Limitations	This AANAT antibody is available for research use only.



Western blot analysis of AANAT antibody and human Y79 lysate. Predicted molecular weight ~23 kDa.

Description

Serotonin N-acetyltransferase/AANAT 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.

Application Notes

Titration of the AANAT antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

A portion of amino acids 27-54 from the human protein was used as the immunogen for this AANAT antibody.

Storage

Aliquot the AANAT antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

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