

AANAT polyclonal antibody (DyLight 488)

Catalog # PAB15049 Size 100 uL

Specification

Product Description	Rabbit polyclonal antibody raised against AANAT.
Immunogen	Human AANAT.
Host	Rabbit
Reactivity	Human, Primates
Specificity	Recognizes human and rhesus AANAT. It does not recognize rat, ovine, chicken or zebrafish AANAT . This is specific to primate AANAT (3,4). By Western blot, this antibody recognizes a band at 23 KD a representing hAANAT.
Form	Liquid
Conjugation	DyLight 488
Recommend Usage	Western Blot (1:500-1:1000) Immunocytochemistry (1:200) The optimal working dilution should be determined by the end user.
Storage Buffer	In 50 mM sodium borate
Storage Instruction	Store at 4°C. Do not freeze.

Applications

- Western Blot
- Immunocytochemistry

Gene Info — AANAT

Entrez GeneID [15](#)

Protein Accession#	U40347
Gene Name	AANAT
Gene Alias	AA-NAT, SNAT
Gene Description	arylalkylamine N-acetyltransferase
Omim ID	600950
Gene Ontology	Hyperlink
Gene Summary	Arylalkylamine N-acetyltransferase belongs to the superfamily of acetyltransferases. 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 seasonal reproduction, modulates the function of the circadian clock in the suprachiasmatic nucleus, and influences activity and sleep. This enzyme is rapidly inactivated when animals are exposed to light at night. This protein is 80% identical to sheep and rat AA-NAT. Arylalkylamine N-acetyltransferase may contribute a multifactorial genetic diseases such as altered behavior in sleep/wake cycle. [provided by RefSeq]
Other Designations	serotonin N-acetyltransferase

Pathway

- [Metabolic pathways](#)
- [Tryptophan metabolism](#)

Disease

- [Autistic Disorder](#)
- [Bipolar Disorder](#)
- [Child Development Disorders](#)
- [Depressive Disorder](#)
- [Genetic Predisposition to Disease](#)
- [Mental Disorders](#)
- [Psychiatric Status Rating Scales](#)
- [Psychotic Disorders](#)
- [Schizophrenia](#)

- [Scoliosis](#)
- [Sleep](#)
- [Sleep Disorders](#)
- [Wakefulness](#)