

## AANAT polyclonal antibody

Catalog: BS60541

Host: Rabbit

Reactivity: Human,Rat

### BackGround:

AANAT (Aralkylamine N-acetyltransferase), also called Serotonin N-acetyltransferase (SNAT) or Serotonin acetylase, is a member of the acetyltransferase superfamily. It is almost exclusively expressed in the pineal gland and the retina. AANAT activity is high at night and low during the day due to the 10 to 100-fold increase in the amount of active AANAT at night. Retinal exposure to light causes cAMP levels to decrease in photoreceptor cells and, as a result, AANAT is targeted for degradation by proteasomal proteolysis. AANAT plays an important role as the rate limiting enzyme in melatonin synthesis. It is responsible for catalyzing the N-acetylation of serotonin to N-acetylserotonin, which is then converted to melatonin by hydroxyindole-O-methyltransferase. Melatonin is an important hormone that is involved in many physiological processes including immune function, seasonal reproduction, retinal physiology and circadian entrainment.

### Product:

1 mg/ml in Phosphate buffered saline (PBS) with 15 mM sodium azide, approx. pH 7.2.

### Molecular Weight:

~ 23 kDa

### Swiss-Prot:

Q16613

### Purification&Purity:

The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE).

### Applications:

WB: 1:500~1:1000

IHC: 1:50~1:200

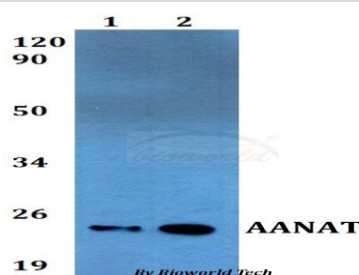
### Storage&Stability:

Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

### Specificity:

AANAT polyclonal antibody detects endogenous levels of AANAT protein.

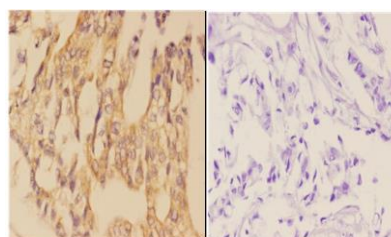
### DATA:



Western blot (WB) analysis of AANAT polyclonal antibody at 1:500 dilution

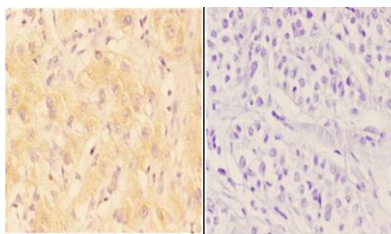
Lane1:A549 whole cell lysate

Lane2:PC12 whole cell lysate



BS60541  
Lot CN45141

Immunohistochemistry (IHC) analyzes of AANAT pAb in paraffin-embedded human breast carcinoma tissue at 1:50, showing cytoplasmic strong positive staining. Negative control (the right) Using PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG-biotin followed by avidin-peroxidase.



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Immunohistochemistry (IHC) analyzes of AANAT pAb in paraffin-embedded human liver carcinoma tissue at 1:50, showing cytoplasmic

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## PRODUCT DATA SHEET

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mic strong positive staining. Negative control (the right) Using PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG-biotin followed by avidin-peroxidase.

**Note:**

For research use only, not for use in diagnostic procedure.

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