

Datasheet for ABIN1409225

**anti-AANAT antibody (pThr29) (Cy5.5)**[Go to Product page](#)

## Overview

|                      |                                                                                                         |
|----------------------|---------------------------------------------------------------------------------------------------------|
| Quantity:            | 100 µL                                                                                                  |
| Target:              | AANAT                                                                                                   |
| Binding Specificity: | pThr29                                                                                                  |
| Reactivity:          | Human, Rat, Mouse                                                                                       |
| Host:                | Rabbit                                                                                                  |
| Clonality:           | Polyclonal                                                                                              |
| Conjugate:           | This AANAT antibody is conjugated to Cy5.5                                                              |
| Application:         | Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p)) |

## Product Details

|                       |                                                                                                           |
|-----------------------|-----------------------------------------------------------------------------------------------------------|
| Immunogen:            | KLH conjugated synthetic phosphopeptide derived from mouse AANAT around the phosphorylation site of Thr29 |
| Isotype:              | IgG                                                                                                       |
| Predicted Reactivity: | Human, Mouse, Rat, Dog, Pig, Chicken                                                                      |
| Purification:         | Purified by Protein A.                                                                                    |

## Target Details

|                   |                                          |
|-------------------|------------------------------------------|
| Target:           | AANAT                                    |
| Alternative Name: | Aanat ( <a href="#">AANAT Products</a> ) |

## Target Details

|             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Background: | <p>Synonyms: p-AANATThr29, p-AANATT29, AANATphospho Thr29, p-AANATT29</p> <p>Background: 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.</p> |
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| Gene ID: | 11298 |
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|-----------|--------------------------------|
| Pathways: | <a href="#">Photoperiodism</a> |
|-----------|--------------------------------|

## Application Details

|                    |                    |
|--------------------|--------------------|
| Application Notes: | IF(IHC-P) 1:50-200 |
|--------------------|--------------------|

|               |                       |
|---------------|-----------------------|
| Restrictions: | For Research Use only |
|---------------|-----------------------|

## Handling

|                    |                                                                                                                         |
|--------------------|-------------------------------------------------------------------------------------------------------------------------|
| Format:            | Liquid                                                                                                                  |
| Concentration:     | 1 µg/µL                                                                                                                 |
| Buffer:            | Aqueous buffered solution containing 0.01M TBS ( pH 7.4) with 1 % BSA, 0.03 % Proclin300 and 50 % Glycerol.             |
| Preservative:      | Sodium azide                                                                                                            |
| Precaution of Use: | This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only. |
| Storage:           | -20 °C                                                                                                                  |
| Storage Comment:   | Store at -20°C. Aliquot into multiple vials to avoid repeated freeze-thaw cycles.                                       |
| Expiry Date:       | 12 months                                                                                                               |