

# Product Datasheet

## Serotonin N-acetyltransferase Antibody NB100-135

Unit Size: 0.1 ml

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

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**NB100-135****Serotonin N-acetyltransferase Antibody**

<b>Product Information</b>	
<b>Unit Size</b>	0.1 ml
<b>Concentration</b>	Please see the vial label for concentration. If unlisted please contact technical services.
<b>Storage</b>	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
<b>Clonality</b>	Polyclonal
<b>Preservative</b>	0.05% Thimerosal
<b>Isotype</b>	IgG
<b>Purity</b>	Immunogen affinity purified
<b>Buffer</b>	Eluted in 0.1N glacial acetic acid containing 0.1% BSA and neutralized using 10x PBS
<b>Target Molecular Weight</b>	23 kDa

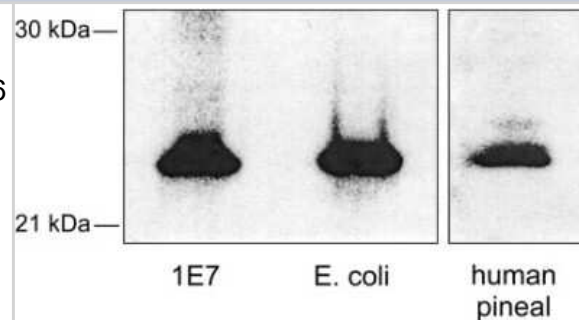
<b>Product Description</b>	
<b>Host</b>	Rabbit
<b>Gene ID</b>	15
<b>Gene Symbol</b>	AANAT
<b>Species</b>	Human, Primate, Bovine (Negative), Chicken (Negative), Rat (Negative), Zebrafish (Negative)
<b>Reactivity Notes</b>	Human and rhesus macaque. The antibody does not recognize rat, bovine, chicken or zebrafish.
<b>Specificity/Sensitivity</b>	This is specific for primate AANAT (3,4).
<b>Immunogen</b>	Human Serotonin N-acetyltransferase [UniProt# Q16613]

<b>Product Application Details</b>	
<b>Applications</b>	Western Blot, Immunocytochemistry/Immunofluorescence
<b>Recommended Dilutions</b>	Western Blot 1:500-1:1000, Immunocytochemistry/Immunofluorescence 1:200
<b>Application Notes</b>	<p>This Serotonin N-acetyltransferase antibody is useful for Immunocytochemistry/Immunofluorescence and Western Blot. By Western blot, this antibody recognizes a band at 23 kDa.</p> <p>The observed molecular weight of the protein may vary from the listed predicted molecular weight due to post translational modifications, post translation cleavages, relative charges, and other experimental factors.</p>

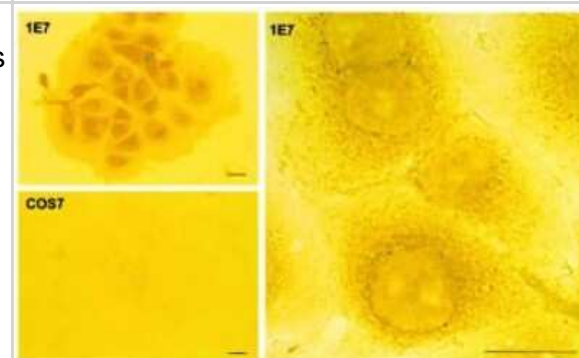


## Images

Western Blot: Serotonin N-acetyltransferase Antibody [NB100-135] - Samples of 1E7 homogenates and bacterially expressed hAANAT were loaded, which contained similar levels of AANAT activity in 65 ug and 2.6 ng of protein.



Immunocytochemistry/Immunofluorescence: Serotonin N-acetyltransferase Antibody [NB100-135] - AANAT in COS7 and 1E7 cells detected by ICC. Cells were grown on two-well chamber slides and fixed with 2.5% glutaraldehyde; 1E7 cells treated with FSK for 3 h (two magnifications). COS, COS7 cells treated with FSK for 3 h.



## Publications

Coon, SL et al. Melatonin synthesis enzymes in *Macaca mulatta*: focus on arylalkylamine N-acetyltransferase (EC 2.3.1.87). *J Clin Endocrinol Metab.* 87(10):4699-706. 2002-10-01 [PMID: 12364461]

Klein, DC et al. 14-3-3 Proteins and photoneuroendocrine transduction: role in controlling the daily rhythm in melatonin. *Biochem Soc Trans;*30(4):365-73. 2002-08-01 [PMID: 12196096]

Iuvone, PM et al. Retinal melatonin production: role of proteasomal proteolysis in circadian and photic control of arylalkylamine N-acetyltransferase. *Invest Ophthalmol Vis Sci;*43(2):564-72. 2002-02-01 [PMID: 11818405]

Klein, DC. Arylalkylamine N-acetyltransferase: the Timezyme. *J. Biol Chem.* 282(7):4233-7. 2007-02-16 [PMID: 17164235]

Coon, SL et al. cAMP regulation of arylalkylamine N-acetyltransferase (AANAT, EC 2.3.1.87): a new cell line (1E7) provides evidence of intracellular AANAT activation. *J Biol Chem.* 276(26):24097-107. 2001-06-29 [PMID: 11313340]



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### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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