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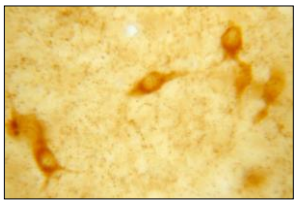
Antibodies that Shine



IHC image of neurons in rat basal forebrain.

VAT (Vesicular Acetylcholine Transporter) Antibody

Catalog #	**24286**	**Product type**	Primary antibodies
Lot #	**1308002**	**Clonality**	Polyclonal
Form	Lyophilized whole serum (100 µL)	**Isotype**	IgG
Host	Goat	**Preservative**	≤ 0.09% sodium azide
Reacts With	Human, Mouse, Rat	**Antigen**	C-terminal synthetic peptide sequence corresponding to amino acids (511–530) from the cloned rat VACHT.

INSTRUCTIONS

Preparation	Do not reconstitute until ready to use since the product is most stable when lyophilized. The product does not need to be kept cooled during shipping. For long-term storage, store lyophilized antibody until ready to use at -15ºC or lower. Reconstitute with 100 µL of distilled or deionized water. To avoid freeze/thaw cycles, dilute unused antibody with PBS or Tris buffer at a dilution no higher than 1/10, then aliquot and freeze at -15ºC or lower. Refer to the Instruction Manual available online at www.immunostar.com for information on tissue preparation, immunostaining techniques, troubleshooting, and formulas.

APPLICATION

IHC Quality Control	The antibody produces significant indirect immunofluorescence staining and significant biotin-avidin/HRP staining at dilutions of 1/5,000–1/10,000 of VAChT in rat basal forebrain. Optimal dilution will vary depending upon fixation, labeling technique and/or detection system; therefore, a dilution series is recommended. Immunolabeling is completely abolished by preadsorption with synthetic rat VAT (VAChT) (511–530). Immunolabeling of transfected cells demonstrates no cross reactivity with vesicular monoamine transporters.
Tissue	Rat basal forebrain
Perfusion Fixation	• Fixation: 4% paraformaldehyde in 0.1M phosphate buffer, pH 7.4; 500 mL over 20 min. • Post Fixation: 1.5 hour at 4°C in 4% paraformaldehyde in 0.1M phosphate buffer, pH 7.4. • Note: If needed, low levels of glutaraldehyde (0.1–0.3%) may be used in conjunction with paraformaldehyde.
Sections	10 µm cryostat or 50 µm vibratome
Tissue Incubation	18 –24 hours at 2°–8°C.
Detection System	Use IF or Bn-AV/HRP according to manufacturer's directions.
Suggested Dilution	1/5,000 –1/10,000 in PBS/0.3% Triton X-100 - Bn-AV/HRP immunohistochemistry

NOTES

Special Instructions	It is recommended that the researcher perform a primary antibody dilution series using our dilution recommendations as a guideline. Note that a change in the fixation or buffering system from our protocol may change the configuration of the protein which could alter the reactivity with the tissue tested.
Storage	After reconstitution, use immediately or refrigerate at 2º–8ºC up to 2 days. For long-term storage, aliquot antibody and freeze at -15°C or lower. Avoid repeated freeze/thaw cycles.
Concentration	Not applicable. Antibody concentration is only relevant for purified antibodies.
Journal References	www.immunostar.com/publications

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