



## SHEEP ANTI-CHOLINE ACETYLTRANSFERASE (ChAT) POLYCLONAL ANTIBODY

<b>CATALOG NO:</b>	AB1582
<b>LOT NUMBER:</b>	
<b>QUANTITY:</b>	100 µL
<b>SPECIFICITY:</b>	Choline Acetyltransferase (ChAT). Will stain cholinergic neurons in rat, guinea-pig and rabbit central and peripheral nervous systems.
<b>IMMUNOGEN:</b>	A 22 amino acid peptide from porcine ChAT, coupled to KLH. The sequence is H-GLFSSYRLPGHTQDTLVAQKSS-NH <sub>2</sub> .
<b>APPLICATIONS:</b>	Immunohistochemistry: 1:1,000-1:2,000 Immunoblotting Optimal working dilutions must be determined by end user.
<b>SPECIES REACTIVITIES:</b>	Rat, guinea-pig and rabbit. AB1582 has not been tested on human material but rabbit antibodies generated against the same peptide have been shown to react against primate and human enzyme.
<b>FORMAT:</b>	Sheep serum
<b>PRESENTATION:</b>	Lyophilized, no preservatives. Reconstitute with 100 µL of sterile distilled water. Centrifuge to remove any residue.
<b>STORAGE/HANDLING:</b>	Maintain at -20 to -70°C in undiluted aliquots for up to 12 months. Avoid repeated freeze/thaw cycles. Glycerol (1:1) can be added for additional stability.
<b>REFERENCE:</b>	<i>J. Neurochem.</i> (1993) <b>61</b> :804-811. Hafezparast, M., et al., <i>Science</i> (2003) <b>300</b> :808-812.

## IMMUNOHISTOCHEMISTRY PROTOCOL FOR AB1582 STAINING OF GUINEA PIG ILEUM

- 1) Pin the ileum out flat and tight.
- 2) Fix overnight at 4°C in modified Zamboni's (2% paraformaldehyde with 15% saturated picric acid in phosphate buffered saline).
- 3) Clear in DMSO, 100%, 3 times for 10 minutes each, rinse in PBS.
- 4) Dissect off **ALL** circular muscle.
- 5) Preincubate with 10% normal donkey serum.
- 6) Incubate in anti-ChAT (AB1582) diluted 1:1,000-1,2000 with 10% normal donkey serum over night at 4°C on a shaker.
- 7) Incubate with Donkey anti-Sheep IgG-Cy3 labeled secondary antibody (Catalog Number AP184C) at a dilution of 1:200 for 2 hours.

**IMPORTANT NOTE:** It is essential to remove **ALL** circular muscle.

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