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RABBIT ANTI-NEURON SPECIFIC ENOLASE (NSE) POLYCLONAL ANTIBODY

CATALOG NUMBER: AB951

LOT NUMBER:

QUANTITY: 500 µL

SPECIFICITY: AB951 stains many neuronal cell bodies and processes within the central and peripheral nervous system.

IMMUNOGEN: Synthetic peptide from human NSE.

APPLICATIONS: Western Blot: 1:100-1:1,000 (ECL) On denatured Western blots of purified bovine NSE the antibody recognizes a single band at approximately 39 kDa. On Western blots of whole rat brain lysates a more complex series of bands is observed ranging from 78/80 kDa (NSE homodimer) to 20 kDa (gamma-enolase degradation product).

Immunohistochemistry: 1:100-1:1,000 (ABC) The antibody has been used successfully on formaldehyde-fixed cryostat, Vibratome and de-paraffinized tissues. For indirect immunofluorescence procedures use at a dilution of 1:80-1:160.

Dilute to working concentration with 50 mM PBS, pH 7.4 containing 1.5% NaCl and 1% Normal Goat Serum (if a goat anti-rabbit IgG linker antibody is to be used).

Optimal working dilutions must be determined by the end user.

SPECIES REACTIVITIES: The antibody is known to react with bovine and rat. The antibody is also expected to react to a certain degree of variability with brain extracts from human, guinea pig, pig, mouse, gerbil, cat, rabbit, dog, sheep, cow and horse. Specific testing is underway.

FORMAT: Rabbit antiserum, partially purified.

PRESENTATION: Liquid containing 0.1% sodium azide.

STORAGE/HANDLING: Maintain at -20ºC in undiluted aliquots for up to 12 months after date of receipt. Avoid repeated freeze/thaw cycles.

REFERENCE: Hantman, A.W., et al., *J. Neuroscience* **24**:836-842 (2004).

RELATED REFERENCES:

1. Schemel, et al., *Nature* **276**:834 (1978).
2. Grasso, et al., *Brain Res.* **122**:582-585 (1977).
3. Ahlman, et al., *Int. J. Cancer* **43**:949-955 (1989).
4. Wang, et al., *J. Neuro Methods* **33**:219-227 (1990).
5. Bongarzone et al., *J. Neuroscience* **18**:5344-5353 (1998).
6. Gau, PP, et al., *PNAS* **96**:4073-4077 (1999).

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IMMUNOHISTOCHEMISTRY PROTOCOL FOR AB951

This antibody has been used successfully on 30 μm, free floating, 4% paraformaldehyde fixed rat brain tissue. All steps are performed under constant agitation. Suggested protocol follows.

1) 3 x 10 minute washes in TBS (without Triton).
2) Incubate for 30 minutes in TBS with 3% serum (same as host from secondary antibody).
3) Incubate primary antibody diluted appropriately in TBS with 1% serum (same as host from secondary antibody) (without Triton) for 2 hours at room temperature followed by 16 hours at 4°C.
4) 3 x 10 minute washes in TBS.
5) Incubate with secondary antibody diluted appropriately in TBS with 1% serum (same as host from secondary antibody).
6) 3 x 10 minute washes in TBS.
7) ABC Elite (1:200 Vector Labs) in TBS.
8) 2 x 10 minute washes in TBS.
9) 1 x 10 minute wash in phosphate buffer (no saline).
10) DAB reaction with 0.06% NiCl added for intensification.
11) 2 x 10 minute washes in PBS.
12) 1 x 10 minute wash in phosphate buffer (no saline).

Important Note: *During shipment, small volumes of product will occasionally become entrapped in the seal of the product vial. For products with volumes of 200 μL or less, we recommend gently tapping the vial on a hard surface or briefly centrifuging the vial in a tabletop centrifuge to dislodge any liquid in the container's cap.*

FOR RESEARCH USE ONLY; NOT FOR USE IN DIAGNOSTIC PROCEDURES. NOT FOR HUMAN OR ANIMAL CONSUMPTION

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