RABBIT ANTI-FRACTIN POLYCLONAL ANTIBODY

CATALOG NUMBER: AB3150
QUANTITY: 100 µL

LOT NUMBER:

ALTERNATE NAMES: 32 kDa Fragment of beta-Actin
EPITOPE: C-terminus.

BACKGROUND: During apoptosis, beta actin is cleaved by activated caspase 3 between Asp244 and Gly245. This cleavage results in the release of an approximately 130 amino acid (15 kDa) fragment from the C-terminus of beta actin and a 32 kDa (244 amino acid) N-terminal fragment of actin, known as Fractin. The C-terminus of the Fractin fragment represents an apoptosis-specific neoepitope that is not antigenic in native full-length beta actin and therefore presents a novel and specific marker for distinguishing apoptotic from necrotic cells.

SPECIFICITY: By immunohistochemistry and Western blot, this antibody only recognizes the 32 kDa Fractin fragment but not full-length beta actin.

APPLICATIONS: Immunohistochemistry/Immunocytochemistry: 1:400-1:1000. 1 hr at 37°C or 4°C overnight. Note: If studying paraffin-embedded tissue, the use of antigen retrieval methods is recommended. Western Blot: 1:1000-1:4000 for incubation overnight at 4°C. Recommended antibody dilution buffer: TBS with 3% BSA and 0.05% Tween 20, pH 7.4. Optimal working dilutions must be determined by end user.

SPECIES REACTIVITY: Human, mouse and rat. Reactivity with other species has not been determined.

IMMUNOGEN: K-YELPD peptide representing the last five amino acids of the C-terminus of the 32 kDa Fractin fragment of beta-Actin. This sequence is absolutely conserved in Fractin fragments from human, mouse, rat, feline, porcine, ovine, bovine, canine, rabbit and guinea pig origin.

CONTROL: Staurosporin treated neuronal cultures.

FORMAT: Whole rabbit serum.

PRESENTATION: Liquid rabbit serum containing no preservatives.

STORAGE/HANDLING: Aliquot and store at -20°C for up to 12 months from date of receipt. Avoid repeated freeze-thaw cycles.

REFERENCES:


Adamic, E. et al. (2001). Multiple-label immunocytochemistry for the evaluation of nature of cell death in experimental models of neurodegeneration. Brain Res. Protocols 7:193-
Chen, T. et al. (2001). Inhibition of caspase-3-like activity reduces glutamate induced cell death in adult rat retina. *Brain Res.* **904**:177-188.

*For research use only; not for use as a diagnostic.*

**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.

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