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Schillerstr. 5

## AP08647SU-N Polyclonal Antibody to Fractin (C-term) - Serum

Alternate names: Fragment of Actin

Quantity: 0.1 ml

Background: Fractin (fragment of Actin) is a Caspase-specific cleavage product of actin and serves

as a novel marker of apoptosis-related events. It has recently been reported that Fractin may have a functional role in apoptotic signaling in oligodendrocytes (Schulz,

R., et al., Glia, 2009, in press).

Host / Isotype: Rabbit / IgG

Immunogen: Synthetic peptide taken from the C terminus of the 32-kDa Actin fragment.

Format: State: Liquid Neat Serum without preservatives.

Applications: Western Blot: 1/1000.

Immunohistochemistry: 1/100.

Other applications not tested. Optimal dilutions are dependent on conditions and

should be determined by the user.

**Specificity:** Specific for the ~ 32 kDa Fractin protein in Western blots with no reactivity to intact

actin. There is often a ladder of smaller bands in cells or culture or in vivo

preparations due to further degradation by other proteases.

The antibody has been shown to detect the processes and cell bodies of degenerating

neurons and plaque-associated microglia in Alzheimer's disease. (Ref.1)

Species Reactivity: Tested: Human and Rat.

Storage: Store the antibody undiluted (in aliquots) at -20°C.

Avoid repeated freezing and thawing. Shelf life: one year from despatch.

General Readings: 1. Yang F, Sun X, Beech W, Teter B, Wu S, Sigel J, et al. Antibody to caspase-cleaved

actin detects apoptosis in differentiated neuroblastoma and plaque-associated neurons and microglia in Alzheimer's disease. Am J Pathol. 1998 Feb;152(2):379-89.

PubMed PMID: 9466564.

2. Rossiter JP, Anderson LL, Yang F, Cole GM. Caspase-cleaved actin (fractin)

immunolabelling of Hirano bodies. Neuropathol Appl Neurobiol. 2000

Aug;26(4):342-6. PubMed PMID: 10931367.

3. Adamec E, Yang F, Cole GM, Nixon RA. Multiple-label immunocytochemistry for the evaluation of nature of cell death in experimental models of neurodegeneration. Brain

Res Brain Res Protoc. 2001 Jul;7(3):193-202. PubMed PMID: 11431120.

4. Chen TA, Yang F, Cole GM, Chan SO. Inhibition of caspase-3-like activity reduces

glutamate induced cell death in adult rat retina. Brain Res. 2001 Jun 15;904(1):177-88.

PubMed PMID: 11516428.

5. Rossiter JP, Anderson LL, Yang F, Cole GM. Caspase-3 activation and caspase-like

proteolytic activity in human perinatal hypoxic-ischemic brain injury. Acta

Neuropathol. 2002 Jan;103(1):66-73. PubMed PMID: 11841033.



**Pictures:** 

