

POLYCLONAL ANTIBODY

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Catalog No. COP-080048

P94/calpain 3

BACKGROUND

Calplain3 is about 94 kDa, but the protein is very unstable when expressed in COS7 cells, so that the 94-kDa full-length band of wild-type calpain3 can be hardly detected and only autolyzed fragments (ca. 55 kDa and 32 kDa, open and closed triangles, respectively) can be detected. In contrast, inactive calpain3:C129S mutant, in which one of active site residues (Cys129) is substituted by Ser to lose proteolytic activity without conformational change, is stable showing the 94-kDa full-length calpain3 band (arrow).

Product type Primary antibodies

HostGoatSourceSerumFormLiquid

0.1% NaN₃ as a preservative.

Volume 100 μl

Concentration Specificity

Antigen synthetic peptide: NH2-NTISV DRPVK KKKNK PIIFC-COOH

Isotype IgG

Application notes

WB, IP

Recommended use

Recommended dilutions

Western blotting: ~1/500 Predicted molecular weight: 94 kDa (55kDa+32kDa)

Optimal dilutions/concentrations should be determined by the end user.

Staining Pattern

Cross reactivity

Human, Mouse, Rat

Storage

Store below -20°C (below -80°C for prolonged storage).

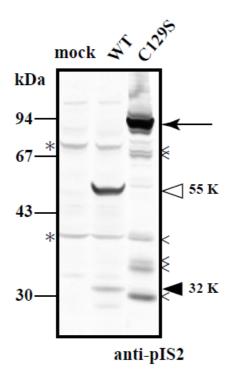
Aliquot to avoid cycles of freeze/thaw.

References

1) Ono, Y., Torii, F., Ojima, K., Doi, N., Yoshioka, K., Kawabata, Y., Labeit, D., Labeit, S., Suzuki, K., Abe, K., Maeda, T., and Sorimachi, H. (2006) Suppressed disassembly of autolyzing p94/CAPN3 in a genetic reportersystem. J. Biol. Chem., 281, 18519-18531. Fig.2A (anti-pIS2)

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<u>mock</u>: negative control, total extract of COS7 cells trasfected with empty expression vector (pSRD)

WT: total extract of COS7 cells trasfected with a wild-type calpain3 expression vector in pSRD

C129S: total extract of COS7 cells trasfected with a calpain3:C129S inactive mutant expression vector in pSRD

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Manufactured by Operon Biotechnologies, K.K



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