

Calpain 1 monoclonal antibody

Catalog: MB9107

Host: Mouse

Reactivity: Human, Mouse, Rat

BackGround:

Calpain 1, also designated μ -calpain, is an intracellular calcium-dependent protease that cleaves cyto-skeletal and submembranous proteins. Calpains are nonlysosomal, calcium-activated intracellular cysteine proteases. Calpains mediate specific Ca^{2+} -dependent processes including cell fusion, mitosis and meiosis. Calpains are heterodimers of a small regulatory subunit and one of three large catalytic subunits, designated Calpain 1, Calpain 2 and Calpain p94. Calpain-1 co-localizes with human leukocyte antigen-DR (HLA-DR) on activated microglia in the aging brain. Calpain influences the process of spermatogenesis and the events preceding fertilization, such as the acrosome reaction.

Product:

Mouse IgM, 1mg/ml in PBS with 0.02% sodium azide, 50% glycerol, pH7.2

Molecular Weight:

82 kDa

Swiss-Prot:

P07384(Human) O35350(Mouse) P97571(Rat)

Purification&Purity:

ProG purified.

Applications:

ICC:1:50-1:200

IHC:1:50-1:200

FC:1:50-1:100

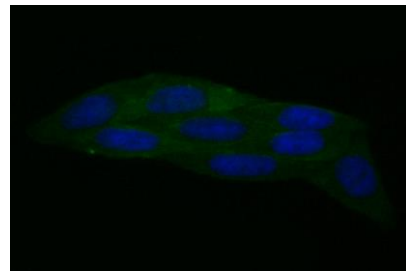
Storage&Stability:

Store at +4 °C after thawing. Aliquot store at -20 °C. Avoid repeated freeze / thaw cycles.

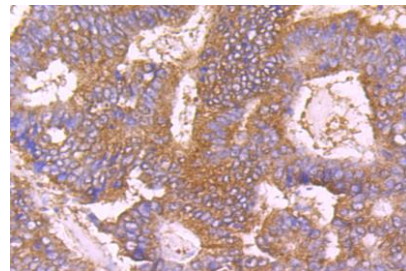
Specificity:

Calpain 1 monoclonal antibody detects endogenous levels of Calpain 1 protein.

DATA:



ICC staining Calpain 1(green) in SiHa cells. The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



Immunohistochemical analysis of paraffin-embedded human colon cancer tissue using anti-Calpain 1 antibody. Counter stained with hematoxylin.

Note:

For research use only, not for use in diagnostic procedure.

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