

Calponin 2 (D156) polyclonal antibody

Catalog: BS3097

Host: Rabbit

Reactivity: Human, Mouse

BackGround:

Calponin, a 34 kDa protein, regulates smooth muscle cell contraction and is a marker of smooth muscle cell differentiation. Calponin, an actin- and tropomyosin-binding protein, is characterized as an inhibitory factor of smooth-muscle actomyosin activity. Calponin is implicated in the regulation of smooth muscle contraction through its interaction with F-actin and inhibition of the actin-activated MgATPase activity of phosphorylated myosin. Both properties are lost following phosphorylation (primarily at serine 175) by protein kinase C or calmodulin-dependent protein kinase II. The three forms of Calponin, Calponin 1 (basic Calponin), Calponin 2 (neutral Calponin), and Calponin 3 (acidic Calponin) are found in smooth muscle tissue. Additionally, Calponin 2 is found in heart muscle tissue and Calponin 3 is found in the brain.

Product:

1 mg/ml in Phosphate buffered saline (PBS) with 0.05% sodium azide, approx. pH 7.2.

Molecular Weight:

~ 33 kDa

Swiss-Prot:

Q99439

Purification&Purity:

The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE).

Applications:

WB: 1:500~1:1000

IHC: 1:50~1:200

IF: 1:50~1:200

Storage&Stability:

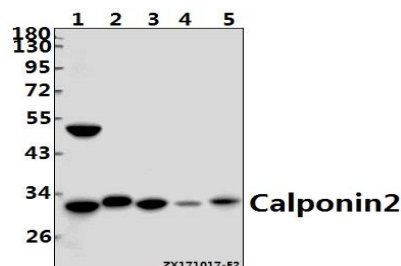
Store at 4 °C short term. Aliquot and store at -20 °C long

term. Avoid freeze-thaw cycles.

Specificity:

Calponin 2 (D156) polyclonal antibody detects endogenous levels of Calponin 2 protein.

DATA:



Western blot (WB) analysis of Calponin 2 (D156) pAb at 1:500 dilution

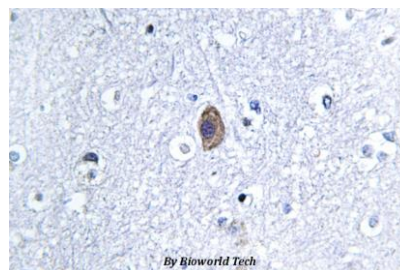
Lane1: AML-12 whole cell lysate(40ug)

Lane2: H9C2 whole cell lysate(20ug)

Lane3: L02 whole cell lysate(40ug)

Lane4: HepG2 whole cell lysate(40ug)

Lane5: Hela whole cell lysate(40ug)



Immunohistochemistry (IHC) analyzes of Calponin 2 (D156) pAb in paraffin-embedded human brain tissue.

Note:

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

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