Calponin 2 (D156) polyclonal antibody

Catalog: BCP00322 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:

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

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℃ short term. Aliquot and store at -20℃ 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

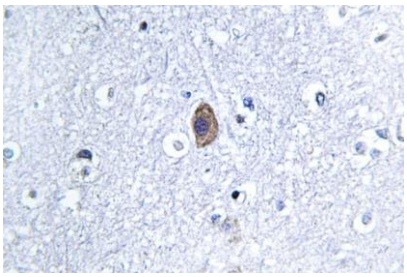
Lane1:AML-12 whole cell lysate(40ug)

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.