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CNN1 Antibody

Purified Mouse Monoclonal Antibody
Catalog # AO1932a

Product Information

Application	WB, IHC, E
Primary Accession	P51911
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Clone Names	1H5B5
Isotype	IgG1
Calculated MW	33170
Description	Calponin h1 (CN) is a differentiation marker of smooth muscle cells that has been reported to be down-regulated in the blood vessels of several human tumors.
Immunogen	Purified recombinant fragment of human CNN1 (AA: 16-165) expressed in E. Coli.
Formulation	Purified antibody in PBS with 0.05% sodium azide.

Additional Information

Gene ID	1264
Other Names	Calponin-1, Basic calponin, Calponin H1, smooth muscle, CNN1
Dilution	WB~~1/500 - 1/2000 IHC~~1/200 - 1/1000 E~~1/10000
Storage	Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	CNN1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	CNN1
Function	Thin filament-associated protein that is implicated in the regulation and modulation of smooth muscle contraction. It is capable of binding to actin, calmodulin and tropomyosin. The interaction of calponin with actin inhibits the actomyosin Mg-ATPase activity (By similarity).

Tissue Location	Smooth muscle, and tissues containing significant amounts of smooth muscle

Background

Chromobox homolog 8 (CBX8), a Polycomb Group protein that interacts with MLL-AF9 and TIP60, plays an essential role in MLL-AF9 transcriptional regulation and leukemogenesis. CBX8, which is part of one of the PRC1 complexes, regulates proliferation of diploid human and mouse fibroblasts through direct binding to the INK4A-ARF locus. ; ;

References

1. Anticancer Res. 2010 Apr;30(4):1071-8.2. Eur J Surg Oncol. 2008 May;34(5):531-7.

Images

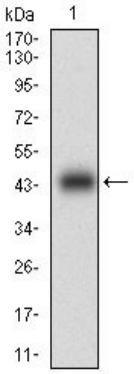


Figure 1: Western blot analysis using CNN1 mAb against human CNN1 (AA: 16-165) recombinant protein. (Expected MW is 43.1 kDa)

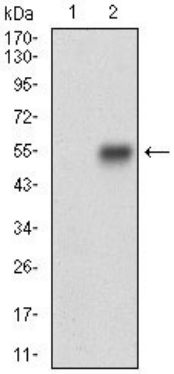


Figure 2: Western blot analysis using CNN1 mAb against HEK293 (1) and CNN1 (AA: 16-165)-hIgGFc transfected HEK293 (2) cell lysate.

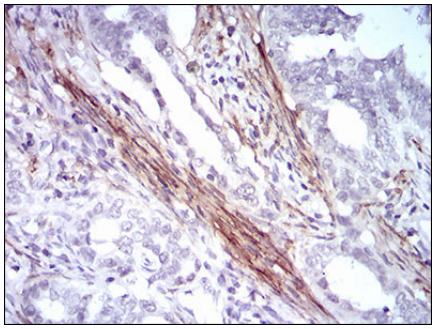


Figure 3: Immunohistochemical analysis of paraffin-embedded cervical cancer tissues using CNN1 mouse mAb with DAB staining.

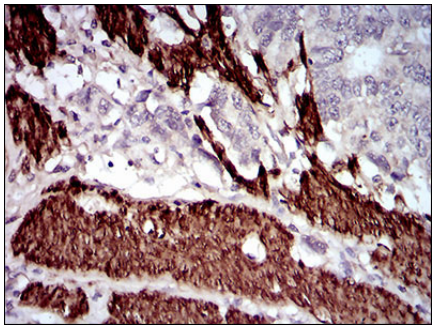


Figure 4: Immunohistochemical analysis of paraffin-embedded esophageal cancer tissues using CNN1 mouse mAb with DAB staining.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.