

For Research Use Only

CNN2 Monoclonal antibody

Catalog Number: 66244-1-Ig **Featured Product**



Basic Information

Catalog Number: 66244-1-Ig	GenBank Accession Number: BC141818	Purification Method: Protein A purification
Size: 150ul , Concentration: 1880 µg/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 1265	CloneNo.: 1G10F5
Source: Mouse	Full Name: calponin 2	Recommended Dilutions: WB 1:5000-1:50000 IHC 1:500-1:4000
Isotype: IgG1	Calculated MW: 309 aa, 34 kDa	
Immunogen Catalog Number: AG23594	Observed MW: 34-36 kDa	

Applications

Tested Applications:

IHC, WB, ELISA

Species Specificity:

human, pig

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : HepG2 cells, A431 cells, HeLa cells, pig stomach tissue, HT-1080 cells, Jurkat cells, K-562 cells

IHC : human breast hyperplasia tissue,

Background Information

Calponin is a family of actin filament-associated proteins which regulate smooth muscle cell contraction. Three isoforms of calponin exist: calponin h1 (CNN1), calponin h2 (CNN2) and calponin 3 (CNN3). Calponin 1 and calponin 2 are predominately expressed in smooth muscle cells and cardiac muscle cells, respectively. Calponin 3 is highly expressed in many tissues including articular cartilage and brain.

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

***** 20ul sizes contain 0.1% BSA**

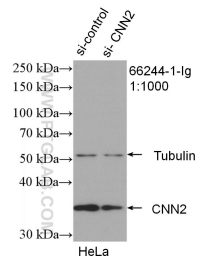
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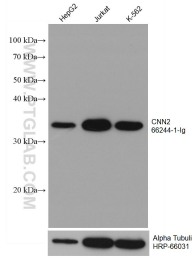
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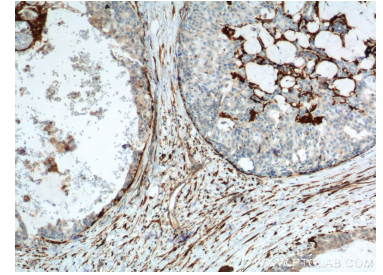
Selected Validation Data



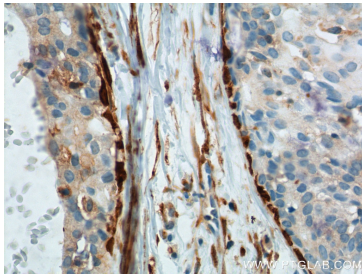
WB result of CNN2 antibody (66244-1-Ig; 1:1000; incubated at room temperature for 1.5 hours) with sh-Control and sh-CNN2 transfected HeLa cells.



HepG2 cells were subjected to SDS PAGE followed by western blot with 66244-1-Ig (CNN2 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated Alpha Tubulin Monoclonal antibody (HRP-66031) as loading control.



Immunohistochemical analysis of paraffin-embedded human breast hyperplasia tissue slide using 66244-1-Ig (CNN2 Antibody) at dilution of 1:2000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human breast hyperplasia tissue slide using 66244-1-Ig (CNN2 Antibody) at dilution of 1:2000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).