Data Sheet (Cat.No.TMAC-01487)

Anti-Filamin-A Antibody (7R224)

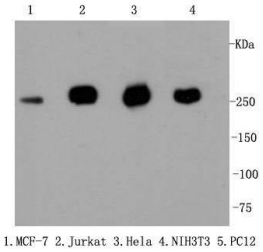
Product Details

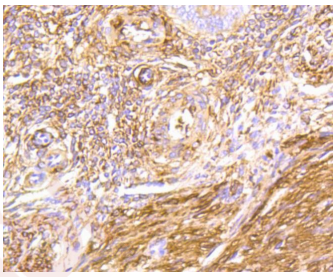
Ig Type:	IgG
Reactivity:	Human,Mouse,Rat
Conjugation:	Unconjugated
Molecular Weight:	Theoretical: 281 kDa.
Clone:	7R224
Purification:	ProA affinity purified

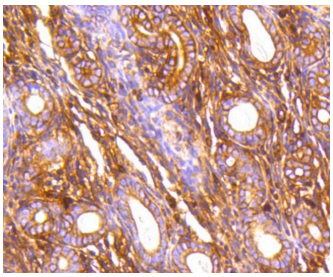
Applications

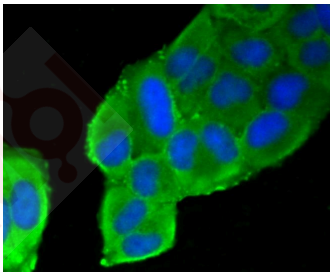
Verified Activity:

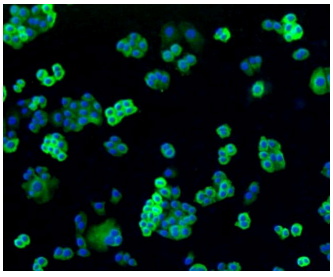
1. Western blot analysis of Filamin A on different cell lysates using anti-Filamin A antibody at 1/1,000 dilution. Positive control: Lane 1: MCF-7, Lane 2: Jurkat, Lane 3: Hela, Lane 4: NIH/3T3.
2. Immunohistochemical analysis of paraffin-embedded human uterus tissue using anti-Filamin A antibody. Counter stained with hematoxylin.
3. Immunohistochemical analysis of paraffin-embedded mouse uterus tissue using anti-Filamin A antibody. Counter stained with hematoxylin.
4. ICC staining Filamin A in Hela cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.
5. ICC staining Filamin A in Ags cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.
6. ICC staining Filamin A in HUVEC cells (green). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.
7. Flow cytometric analysis of Hela cells with Filamin A antibody at 1/50 dilution (blue) compared with an unlabelled control (cells without incubation with primary antibody; red). Alexa Fluor 488-conjugated goat anti-rabbit IgG was used as the secondary antibody.

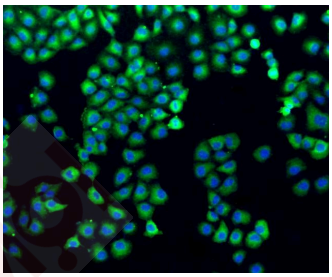


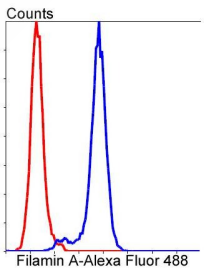












Application: FCM,ICC/IF,IHC,WB

Recommended: WB: 1:1000-5000; IHC: 1:50-400; ICC/IF: 1:50-200; FCM: 1:10-100

Properties

Stability & Storage: Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

Antigen Details

Immunogen: Recombinant Protein

Uniprot ID: P21333

Research Background

Caldesmon, Filamin 1, Nebulin and Villin are differentially expressed and regulated Actin binding proteins. Both muscular (CDh) and non-muscular (CDl) forms of Caldesmon have been identified and each has been shown to bind to Actin as well as to calmodulin and Myosin. CDh is expressed predominantly on thin filaments in smooth muscle, whereas CDl is widely expressed in non-muscle tissues and cells. Filamin 1, which is ubiquitously expressed and exists as a homodimer, functions to crosslink Actin to filaments. Nebulin is a large filamentous protein specific to muscle tissue that may function as a ruler for filament length. Several isoforms of Nebulin are produced by alternative exon usage. Villin is Ca2+-regulated and is the major structural component of the brush border of absorptive cells.

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