

CAPG Recombinant Mouse mAb

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Catalog # AP94396

Product Information

Application	WB
Reactivity	Human, Mouse
Host	Mouse
Clonality	Recombinant
Physical State	Liquid
Isotype	IgG1, Kappa
Purity	affinity purified by Protein G
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Cytoplasm. Nucleus. Melanosome. Identified by mass spectrometry in melanosome fractions from stage I to stage IV.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Caldesmon, Filamin 1, Nebulin, Plastin, ADF, Gelsolin, CapG, Dematin and Cofilin are differentially expressed Actin-binding proteins. Both muscular (CDh) and non-muscular (CD1) forms of Caldesmon bind to Actin as well as to Calmodulin and Myosin. CDh is expressed predominantly on thin filaments in smooth muscle, whereas CD1 is widely expressed in non-muscle tissues and cells. CapG, also designated Actin-regulatory protein and macrophage-capping protein, is a macrophage-specific protein that reversibly blocks the barbed ends of Actin filaments, but does not sever preformed ones. The interactions of CapG with Actin may be important in the regulation of nuclear and cytoplasmic structures. CapG is a calcium-sensitive DNA-binding protein that plays a role in macrophage function. It is expressed in macrophages and macrophage-like cells and can localize both to the nucleus and the cytoplasm.

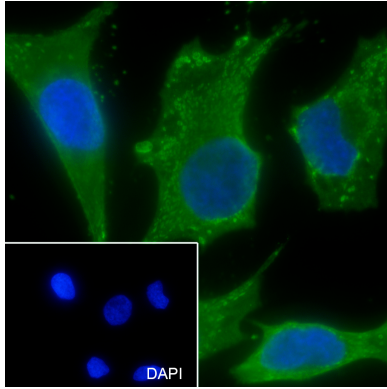
Additional Information

Dilution	WB=1:500-2000, ICC/IF=1:50-200
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

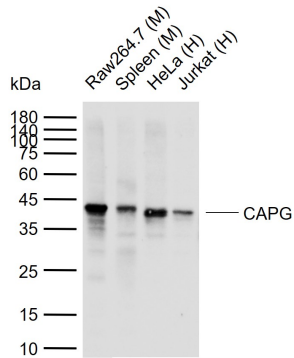
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Images



Cell line: HeLa
 Fixative: 4% Paraformaldehyde
 Permeabilization: 0.1% TritonX-100
 Primary Ab dilution: 1:50
 Primary incubation condition: 4°C overnight
 Secondary Ab: Goat Anti-Mouse IgG
 Nuclear counter stain: DAPI (Blue)
 Comment: Color green is the positive signal for AP94396



Sample:
 Lane 1: Mouse Raw264.7 cell lysates
 Lane 2: Mouse Spleen tissue lysates
 Lane 3: Human HeLa cell lysates
 Lane 4: Human Jurkat cell lysates
 Primary: Anti-CAPG (AP94396) at 1/1000 dilution
 Secondary: IRDye800CW Goat Anti-Mouse IgG at 1/20000 dilution
 Predicted band size: kDa
 Observed band size: 40 kDa

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