

For Research Use Only

CAPG Monoclonal antibody

Catalog Number: 66277-1-Ig **Featured Product**



Basic Information

| | | |
|--|---|---|
| Catalog Number: 66277-1-Ig | GenBank Accession Number: BC000728 | Purification Method: Protein G purification |
| Size: 150ul , Concentration: 1600 ug/ml by 822 Nanodrop and 1000 ug/ml by Bradford method using BSA as the standard; | GeneID (NCBI): 822 | CloneNo.: 3A5B2 |
| Source: Mouse | UNIPROT ID: P40121 | Recommended Dilutions: WB 1:500-1:2000 IHC 1:50-1:500 IF/ICC 1:50-1:500 |
| Isotype: IgG1 | Full Name: capping protein (actin filament), gelsolin-like | |
| Immunogen Catalog Number: AG24676 | Calculated MW: 39 kDa | |
| | Observed MW: 39-40 kDa | |

Applications

Tested Applications:
WB, IHC, IF/ICC, ELISA

Species Specificity:
human

**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 : Jurkat cells, HeLa cells, HL-60 cells

IHC : human lung cancer tissue,

IF/ICC : HeLa cells,

Background Information

CapG (gelsolin-like actin-capping protein) is a member of the gelsolin superfamily proteins, which regulates actin filament length by capping or severing filaments. Studies have shown a role for CapG in regulating cell motility. The expression of CapG is upregulated under hypoxia and in turn increases the motility of cells. Recently it has been reported that the overexpression of CapG is associated with the progression of lung adenocarcinoma as well as lymphatic invasion status of cholangiocarcinoma, which may be used for prognosis of these tumors. (21908955,22155129)

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**

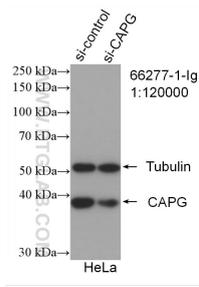
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free
in USA), or 1(312) 455-8498 (outside USA)

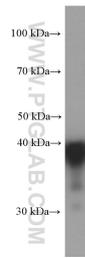
E: proteintech@ptglab.com
W: ptglab.com

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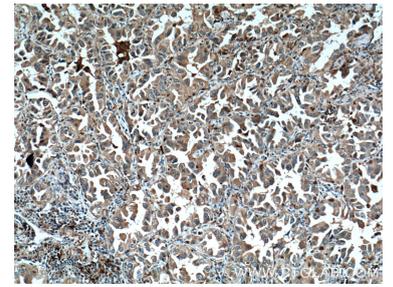
Selected Validation Data



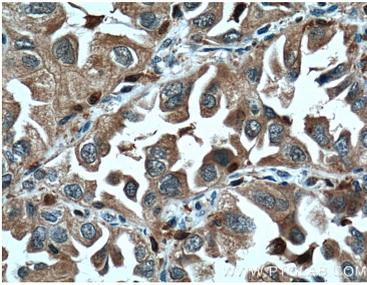
WB result of CAPG antibody (66277-1-Ig; 1:120000); incubated at room temperature for 1.5 hours) with sh-Control and sh-CAPG transfected HeLa cells.



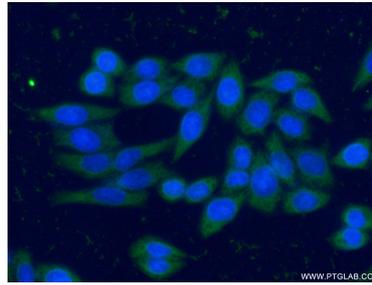
Jurkat cells were subjected to SDS PAGE followed by western blot with 66277-1-Ig (CAPG Antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 66277-1-Ig (CAPG Antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 66277-1-Ig (CAPG Antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Ethanol) fixed HeLa cells using 66277-1-Ig(CAPG antibody) at dilution of 1:100 and Alexa Fluor 488-conjugated Goat Anti-Mouse IgG(H+L).