

For Research Use Only

# IQGAP1 Polyclonal antibody

Catalog Number: 22167-1-AP

Featured Product

10 Publications



## Basic Information

|   |  |  |
|---|--|--|
| <b>Catalog Number:</b><br>22167-1-AP  | <b>GenBank Accession Number:</b><br>BC151834                         | <b>Purification Method:</b><br>Antigen affinity purification   |
| <b>Size:</b><br>150ul, Concentration: 500 µg/ml by Nanodrop and 360 µg/ml by Bradford method using BSA as the standard; | <b>GeneID (NCBI):</b><br>8826  | <b>Recommended Dilutions:</b><br>WB 1:2000-1:10000<br>IP 0.5-4.0 ug for IP and 1:2000-1:16000 for WB |
| <b>Source:</b><br>Rabbit  | <b>Full Name:</b><br>IQ motif containing GTPase activating protein 1 | <b>IHC 1:50-1:500</b><br><b>IF 1:200-1:800</b>   |
| <b>Isotype:</b><br>IgG  | <b>Calculated MW:</b><br>189 kDa                                     |  |
| <b>Immunogen Catalog Number:</b><br>AG17821   | <b>Observed MW:</b><br>190-195 kDa                                   |  |

## Applications

**Tested Applications:**  
FC, IF, IHC, IP, WB, ELISA

**Cited Applications:**  
IF, IHC, IP, WB

**Species Specificity:**  
human, mouse

**Cited Species:**  
human, mouse

**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:** A549 cells, NIH/3T3 cells, SGC-7901 cells, HEK-293 cells, HeLa cells, HepG2 cells

**IP:** HeLa cells,

**IHC:** human breast cancer tissue, human colon cancer tissue, human liver cancer tissue

**IF:** HeLa cells, A549 cells

## Background Information

IQGAP1 is a member of a family of scaffolding proteins that interact with signaling and structural molecules. It localizes to sites of cell-cell contact in epithelial cells and regulates distinct cellular processes including cell adhesion, cell migration, extracellular signals through interacting with numerous protein. Multiple studies have shown that IQGAP1 is up-regulated in many human malignancies, such as lung cancer, ovarian cancer, colon cancer, breast cancer, melanoma and HCC. And IQGAP1 plays a critical role in cancer cell invasion.

## Notable Publications

| Author        | Pubmed ID | Journal        | Application |
|---------------|-----------|----------------|-------------|
| Emilie Renaud | 36217175  | Mol Cancer     | WB          |
| Yunfeng Hu    | 36209218  | Cell Death Dis | WB          |
| Qingqing Dai  | 36320006  | BMC Cancer     | IHC         |

## 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

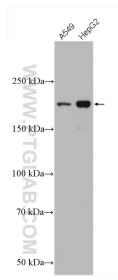
For technical support and original validation data for this product please contact:

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

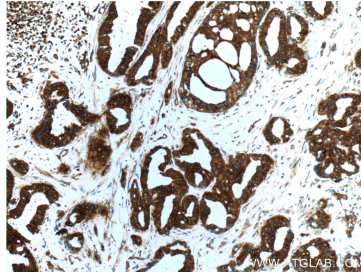
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

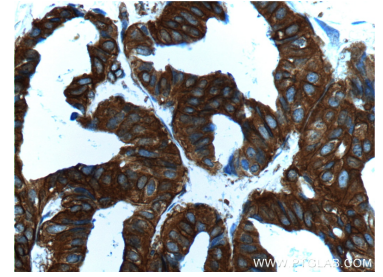
## Selected Validation Data



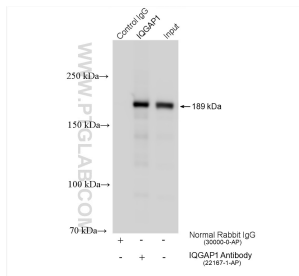
Various lysates were subjected to SDS PAGE followed by western blot with 22167-1-AP (IQGAP1 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



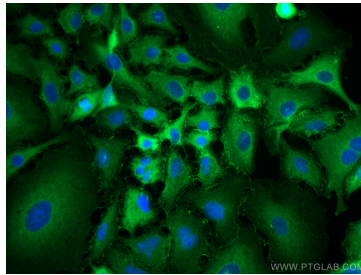
Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 22167-1-AP (IQGAP1 Antibody) at dilution of 1:200 (under 10x lens).



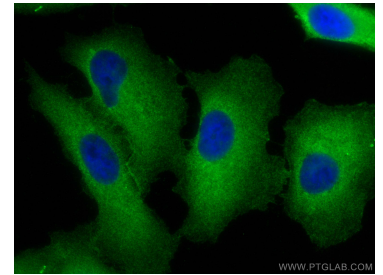
Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 22167-1-AP (IQGAP1 Antibody) at dilution of 1:200 (under 40x lens).



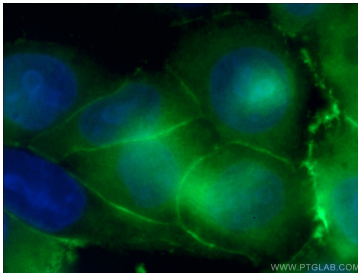
IP result of anti-IQGAP1(IP:22167-1-AP, 4ug; Detection:22167-1-AP 1:8000) with HeLa cells lysate 1280 ug.



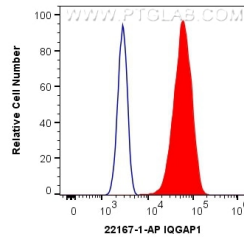
Immunofluorescent analysis of (-20°C Methanol) fixed A549 cells using IQGAP1 antibody (22167-1-AP) at dilution of 1:400 and CoralLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Immunofluorescent analysis of (-20°C Methanol) fixed A549 cells using IQGAP1 antibody (22167-1-AP) at dilution of 1:200 and CoralLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Immunofluorescent analysis of (-20°C Ethanol) fixed HeLa cells using 22167-1-AP (IQGAP1 antibody) at dilution of 1:400 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



$1 \times 10^6$  HeLa cells were intracellularly stained with 0.4 ug Anti-Human IQGAP1 (22167-1-AP) and CoralLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Isotype Control. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).