

IQGAP1 Rabbit mAb

Catalog No: #49946

Package Size: #49946-1 50ul #49946-2 100ul

Orders: order@signalwayantibody.com

Support: tech@signalwayantibody.com

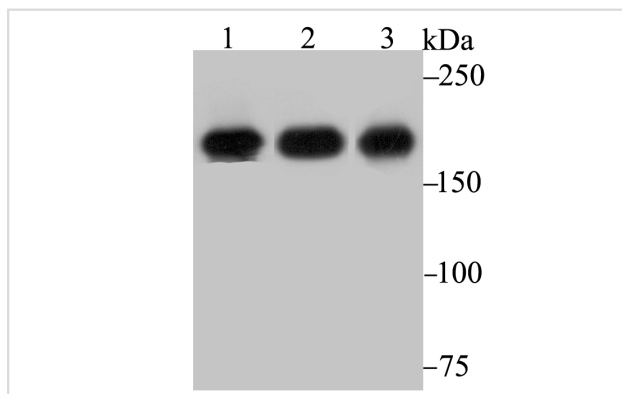
Description

Product Name	IQGAP1 Rabbit mAb
Host Species	Recombinant Rabbit
Clonality	Monoclonal antibody
Clone No.	JG38-74
Purification	ProA affinity purified
Applications	WB,ICC,IF,IHC,FC
Species Reactivity	Hu, Ms
Immunogen Description	Recombinant protein corresponding to N-terminal human IQGAP1.
Other Names	HUMORFA01 antibody IQ motif containing GTPase activating protein 1 antibody IQGA1_HUMAN antibody Iqgap1 antibody KIAA0051 antibody p195 antibody Ras GTPase activating like protein 1 antibody Ras GTPase-activating-like protein IQGAP1 antibody RasGAP-like with IQ motifs antibody SAR1 antibody
Accession No.	Swiss-Prot#:P46940
Uniprot	P46940
GeneID	8826;
Calculated MW	189 kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

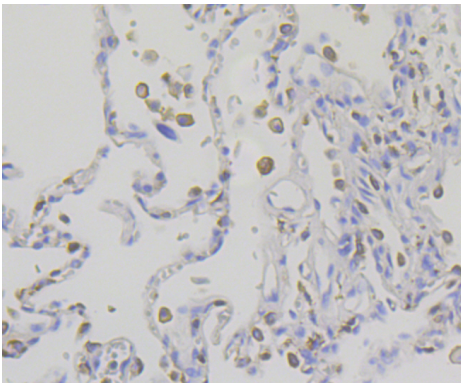
Application Details

WB: 1:500-1:2,000 IHC: 1:50-1:200 ICC/IF: 1:50-1:200FC: 1:50-1:100

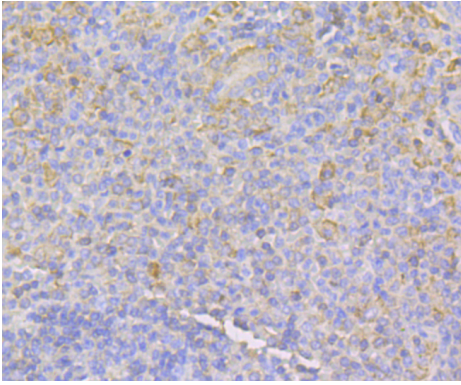
Images



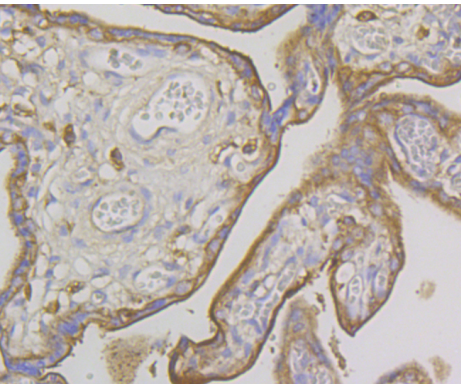
Western blot analysis of IQGAP1 on different lysates using anti-IQGAP1 antibody at 1/1,000 dilution. Positive control:
Lane 1: HUVEC Lane 2: A431 Lane 3: Mouse placenta



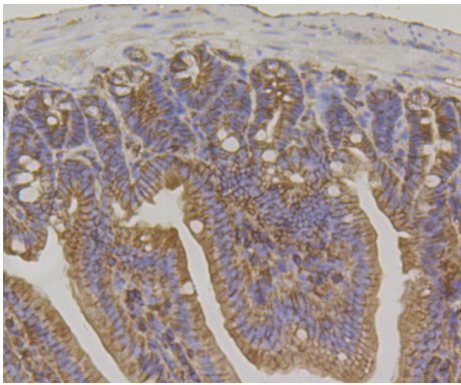
Immunohistochemical analysis of paraffin-embedded human lung cancer tissue using anti-IQGAP1 antibody. Counter stained with hematoxylin.



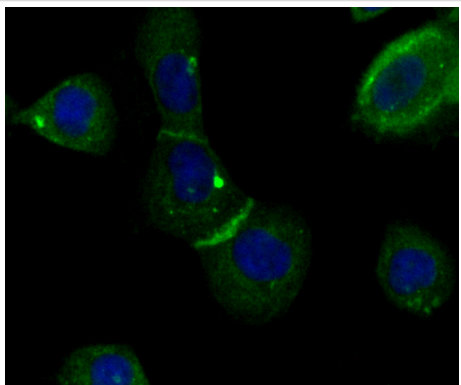
Immunohistochemical analysis of paraffin-embedded human spleen tissue using anti-IQGAP1 antibody. Counter stained with hematoxylin.



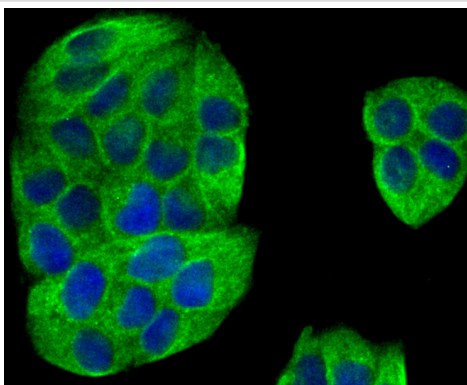
Immunohistochemical analysis of paraffin-embedded human placenta tissue using anti-IQGAP1 antibody. Counter stained with hematoxylin.



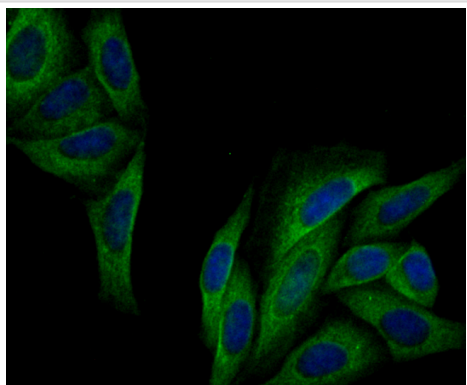
Immunohistochemical analysis of paraffin-embedded mouse colon tissue using anti-IQGAP1 antibody. Counter stained with hematoxylin.



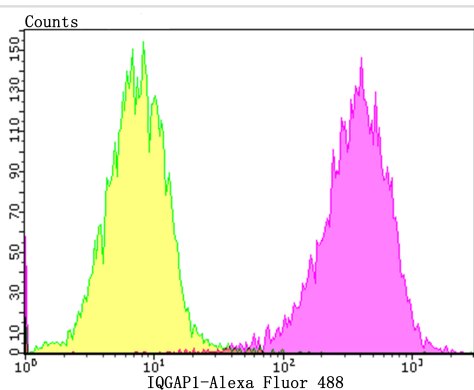
ICC staining IQGAP1 in A431 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



ICC staining IQGAP1 in HeLa cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



ICC staining IQGAP1 in SiHa cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



Flow cytometric analysis of SiHa cells with IQGAP1 antibody at 1/100 dilution (purple) compared with an unlabelled control (cells without incubation with primary antibody; yellow). Alexa Fluor 488-conjugated goat anti-rabbit IgG was used as the secondary antibody.

Background

IQGAP1, for IQ motif containing GTPase activating protein, is a Ras GAP-related, Actin-binding protein that interacts with the small GTPases Cdc42 and Rac1. The C-terminus of IQGAP1 is essential for interacting with Cdc42 and, in addition, IQGAP1 contains a WW domain and a predicted N-terminal coiled-coil region, which may be involved in IQGAP dimerization. Expression of IQGAP1 is highest in placenta, lung and kidney, where it co-localizes with Cdc42 to the cytoskeleton and assists with Cdc42 in mediating the regulation of cell proliferation, polarity and cell morphology. IQGAP1 regulates cadherin-mediated cell adhesion via binding to E-cadherin, b-catenin and a-catenin. This association induces the accumulation of these proteins at the site of cell-cell contact. IQGAP1 is negatively regulated by calmodulin, which binds to IQGAP1 in a calcium-dependent manner and disrupts IQGAP1 from associating with Cdc42.

References

Note: This product is for in vitro research use only