



## Rabbit Anti-IQGAP1 antibody

SL1109R

<b>Product Name:</b>	IQGAP1
<b>Chinese Name:</b>	支架蛋白抗体
<b>Alias:</b>	IQ motif containing GTPase activating protein 1; KIAA0051; p195; Ras GTPase activating like protein 1; IQGA1 HUMAN.
<b>文献引用</b> <b>PubMed</b> :	<b>Specific References(1)</b>  SL1109R has been referenced in 1 publications. [IF=4.67]Fang, Jing, et al. "PAX6 down-regulates miR-124 expression to promote cell migration during embryonic stem cell differentiation." Stem Cells and Development (2014). <b>Mouse</b> . <a href="#">PubMed:24773074</a>
<b>Organism Species:</b>	Rabbit
<b>Clonality:</b>	Polyclonal
<b>React Species:</b>	Human,Mouse,Rat,Rabbit,
<b>Applications:</b>	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
<b>Molecular weight:</b>	189kDa
<b>Cellular localization:</b>	The nucleusThe cell membrane
<b>Form:</b>	Lyophilized or Liquid
<b>Concentration:</b>	1mg/ml
<b>immunogen:</b>	KLH conjugated synthetic peptide derived from human IQGAP1:1451-1550/1657
<b>Lsotype:</b>	IgG
<b>Purification:</b>	affinity purified by Protein A
<b>Storage Buffer:</b>	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
<b>Storage:</b>	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. 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.
<b>PubMed:</b>	<a href="#">PubMed</a>
<b>Product Detail:</b>	<p>IQGAP1 is a widely expressed protein than interacts with components of the cytoskeleton, with cell adhesion molecules, and with several signaling molecules to regulate cell morphology. It binds to activated CDC42 but does not stimulate its GTPase activity. It associates with calmodulin. Could serve as an assembly scaffold for the organization of a multimolecular complex that would interface incoming signals to the reorganization of the actin cytoskeleton at the plasma membrane. May promote neurite outgrowth.</p> <p><b>Function:</b>  Binds to activated CDC42 but does not stimulate its GTPase activity. It associates with calmodulin. Could serve as an assembly scaffold for the organization of a multimolecular complex that would interface incoming signals to the reorganization of the actin cytoskeleton at the plasma membrane. May promote neurite outgrowth.</p> <p><b>Subunit:</b>  Interacts with CDC42; the interaction is demonstrated with IQGAP1 in GTP-bound and in nucleotide-free state. Interacts with RAC1. Does not interact with RHOA. Interacts with TSG101. Interacts with PAK6.</p> <p><b>Subcellular Location:</b>  Cell membrane.</p> <p><b>Tissue Specificity:</b>  Expressed in the placenta, lung, and kidney. A lower level expression is seen in the heart, liver, skeletal muscle and pancreas.</p> <p><b>Post-translational modifications:</b>  Phosphorylation of Ser-1443 by PKC/PRKCE prevents interaction between C1 and C2, allowing binding of nucleotide-free CDC42. Ser-1443 phosphorylation enhances the ability to promote neurite outgrowth.</p> <p><b>Similarity:</b>  Contains 1 CH (calponin-homology) domain.  Contains 4 IQ domains.  Contains 1 Ras-GAP domain.  Contains 1 WW domain.</p> <p><b>SWISS:</b>  P46940</p> <p><b>Gene ID:</b>  8826</p> <p><b>Database links:</b></p>

[Entrez Gene: 8826](#)Human

[Entrez Gene: 29875](#)Mouse

[Entrez Gene: 361598](#)Rat

[Omim: 603379](#)Human

[SwissProt: P46940](#)Human

[SwissProt: Q9JKF1](#)Mouse

[Unigene: 430551](#)Human

[Unigene: 207619](#)Mouse

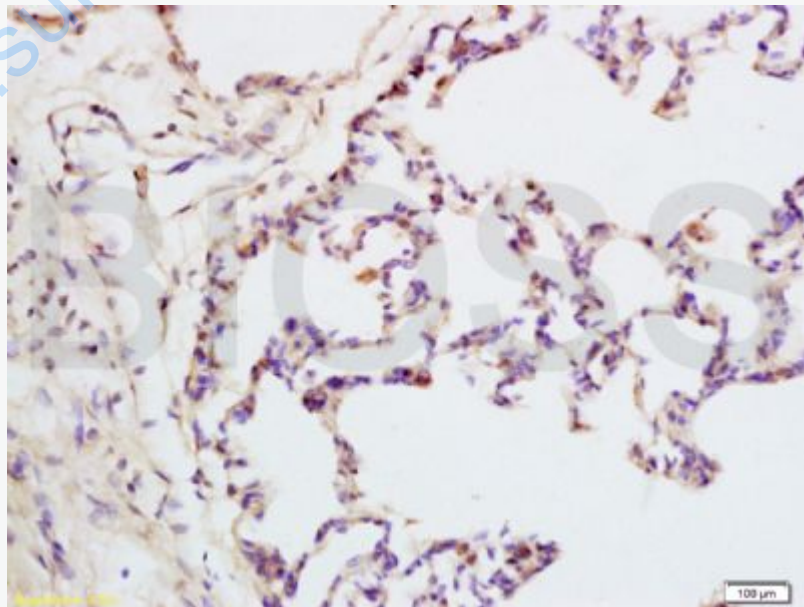
[Unigene: 106939](#)Rat

**Important Note:**

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

支架蛋白IQGAP1与许多重要的细胞活动紧密相关, 如黏附和迁移。研究发现在损伤修复、组织发展、Tumour转移等过程中, IQGAP1的表达和功能有明显改变。同时作为Rh.GTPase信号的主要效应因子, IQGAP1能传递细胞外信号至黏附素复合体、Cytoskeleton以及The nucleus。通过上述信号通路, IQGAP1协助细胞完成一系列重要生理病理活动。

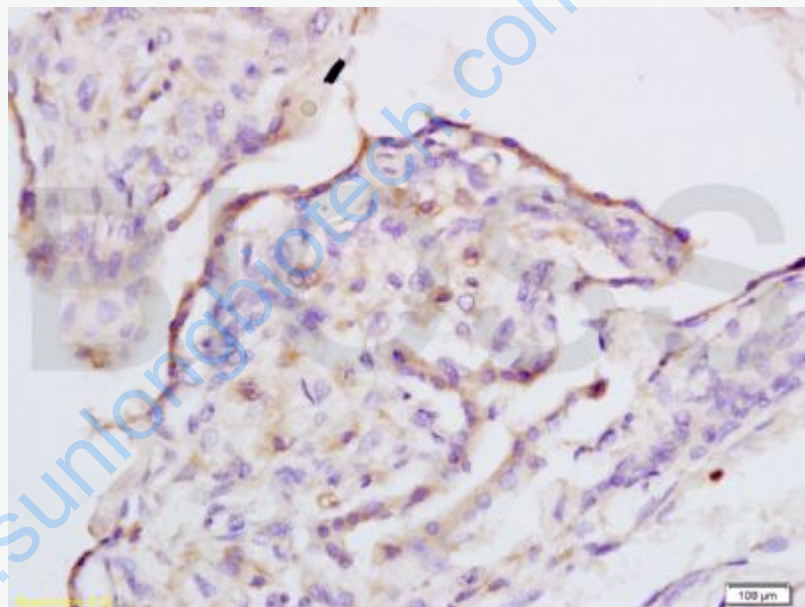
**Picture:**



Tissue/cell: rat lung tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;

Antigen retrieval: citrate buffer ( 0.01M, pH 6.0 ), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;

Incubation: Anti-IQGAP1 Polyclonal Antibody, Unconjugated(SL1109R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Tissue/cell: rabbit placenta tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;

Antigen retrieval: citrate buffer ( 0.01M, pH 6.0 ), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;

Incubation: Anti-IQGAP1 Polyclonal Antibody, Unconjugated(SL1109R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and

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