

IQGAP1 Polyclonal Antibody

Catalog No: YT2387

Reactivity: Human; Mouse

Applications: WB;IHC

Target: IQGAP1

Fields: >>Adherens junction;>>Regulation of actin cytoskeleton;>>Proteoglycans in

cancer

P46940

Q9JKF1

Gene Name: IQGAP1

Protein Name: Ras GTPase-activating-like protein IQGAP1

Human Gene Id: 8826

Human Swiss Prot

No:

Mouse Gene ld: 29875

Mouse Swiss Prot

No:

.

Immunogen:

The antiserum was produced against synthesized peptide derived from human

IQGAP1. AA range:247-296

Specificity: IQGAP1 Polyclonal Antibody detects endogenous levels of IQGAP1 protein.

Formulation : Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Source: Polyclonal, Rabbit, IgG

Dilution: WB 1:500-2000;IHC 1:50-300

Purification: The antibody was affinity-purified from rabbit antiserum by affinity-

chromatography using epitope-specific immunogen.

Concentration: 1 mg/ml

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-15°C to -25°C/1 year(Do not lower than -25°C) **Storage Stability:**

Observed Band: 190kD

Adherens Junction; Regulates Actin and Cytoskeleton; **Cell Pathway:**

Background: IQ motif containing GTPase activating protein 1(IQGAP1) Homo sapiens This

> gene encodes a member of the IQGAP family. The protein contains four IQ domains, one calponin homology domain, one Ras-GAP domain and one WW domain. It interacts with components of the cytoskeleton, with cell adhesion molecules, and with several signaling molecules to regulate cell morphology and motility. Expression of the protein is upregulated by gene amplification in two

gastric cancer cell lines. [provided by RefSeq, Jul 2008],

domain: Regions C1 and C2 can either interact with nucleotide-free CDC42, or **Function:**

> interact together, depending on the phosphorylation state of Ser-1443. When Ser-1443 is not phosphorylated, C1 and C2 interact, which prevents binding of

nucleotide-free CDC42 and promotes binding of GTP-bound CDC42.

Phosphorylation of Ser-1443 prevents interaction between C1 and C2, which opens the structure of the C-terminus and allows binding and sequestration of nucleotide-free CDC42 on both C1 and C2., function: 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.,PTM:Phosphorylation of Ser-1443 by PKC prevents interaction

between C1 and C2.

Subcellular Cell membrane . Nucleus . Cytoplasm . Subcellular distribution is regulated by

the cell cycle, nuclear levels increase at G1/S phase (PubMed:20883816). . Location:

Expressed in the placenta, lung, and kidney. A lower level expression is seen in **Expression:**

the heart, liver, skeletal muscle and pancreas.

Sort: 8652

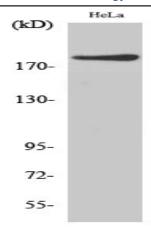
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Host: Rabbit

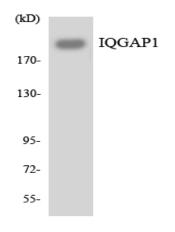
Modifications: Unmodified

Products Images

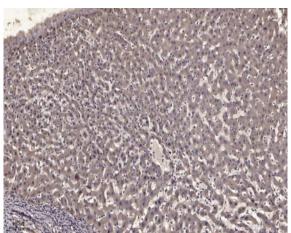
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Western Blot analysis of HeLa cells using IQGAP1 Polyclonal Antibody diluted at 1:1000



Western blot analysis of the lysates from K562 cells using IQGAP1 antibody.



Immunohistochemical analysis of paraffin-embedded human liver cancer. 1, Antibody was diluted at 1:200(4° overnight). 2, Tris-EDTA,pH9.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200(room temperature, 45min).