

ARG43267
anti-IQGAP1 antibodyPackage: 100 µl
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes GNAS2 / GNASs IQGAP1
Tested Reactivity	Hu, Ms, Rat
Tested Application	ICC/IF, IHC-P, IP, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	IQGAP1
Species	Human
Immunogen	Recombinant fusion protein corresponding to aa. 500-750 of Human IQGAP1 (NP_003861.1).
Conjugation	Un-conjugated
Alternate Names	SAR1; Ras GTPase-activating-like protein IQGAP1; HUMORFA01; p195

Application Instructions

Application table	Application	Dilution
	ICC/IF	1:50 - 1:200
	IHC-P	1:50 - 1:200
	IP	1:50 - 1:200
	WB	1:500 - 1:2000
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Positive Control	HepG2	
Observed Size	~ 190 kDa	

Properties

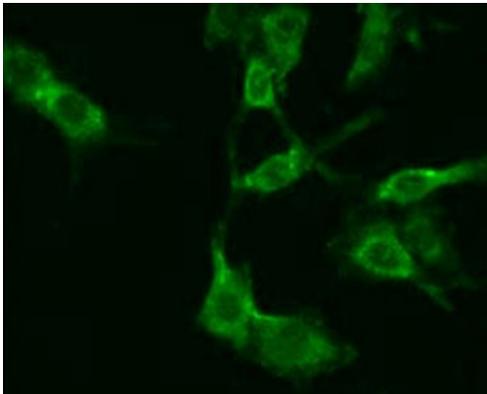
Form	Liquid
Purification	Affinity purified.
Buffer	PBS (pH 7.3), 0.02% Sodium azide and 50% Glycerol.
Preservative	0.02% Sodium azide
Stabilizer	50% Glycerol
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Note For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

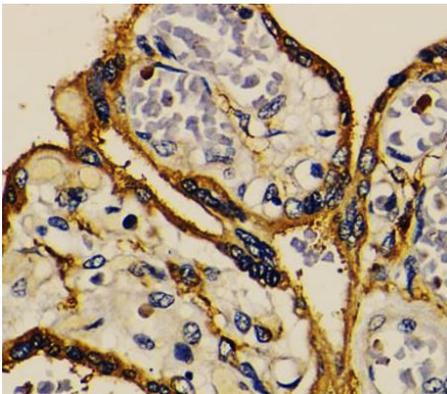
Gene Symbol	IQGAP1
Gene Full Name	IQ motif containing GTPase activating protein 1
Background	This gene encodes a member of the IQGAP family. The protein contains four IQ domains, one calponin homology domain, one Ras-GAP domain and one WW domain. It interacts with components of the cytoskeleton, with 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]
Function	Plays a crucial role in regulating the dynamics and assembly of the actin cytoskeleton. 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 (PubMed:15695813). May play a possible role in cell cycle regulation by contributing to cell cycle progression after DNA replication arrest (PubMed:20883816). [UniProt]
Calculated Mw	189 kDa
PTM	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. [UniProt]
Cellular Localization	Cell membrane. Nucleus. Cytoplasm. Note=Subcellular distribution is regulated by the cell cycle, nuclear levels increase at G1/S phase (PubMed:20883816). [UniProt]

Images



ARG43267 anti-IQGAP1 antibody ICC/IF image

Immunofluorescence: C6 cells stained with ARG43267 anti-IQGAP1 antibody at 1:100 dilution.



ARG43267 anti-IQGAP1 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human placenta tissue stained with ARG43267 anti-IQGAP1 antibody at 1:200 dilution.

ARG43267 anti-IQGAP1 antibody WB image

Western blot: 25 µg of HepG2 cell lysate stained with ARG43267 anti-IQGAP1 antibody at 1:1000 dilution.

