



Qty: 100 µg/200 µl
Mouse anti-IQGAP1
Catalog No. 33-8900
Lot No.

Mouse anti-IQGAP1

FORM

This monoclonal antibody is highly purified from mouse ascites by protein A chromatography. The antibody is supplied as a 200 µl aliquot at a concentration of 0.5 mg/ml in PBS, pH 7.4, containing 0.1% sodium azide.

CLONE: AF1 **ISOTYPE:** IgG_{2b}-κ

IMMUNOGEN: A recombinant protein derived from the C-terminal fragment of human IQGAP1 protein.

SPECIFICITY

This monoclonal antibody is specific for the Cdc42-binding protein IQGAP1 and does not exhibit any cross-reactivity with the related IQGAP2 protein.

REACTIVITY

This antibody is reactive with IQGAP1 from human and monkey cells. It does not react with mouse, rat, or dog IQGAP1. The reactivity of this antibody with other species has not been evaluated.

Sample	ELISA	Immuno-precipitation (native)	Western Blotting*
Human		+	+
Monkey		+	+
Immunogen	+		

* confirmed with HeLa cell lysates.

USAGE

Working concentrations for specific applications should be determined by the investigator. Appropriate dilutions will be affected by several factors, including secondary antibody affinity, antigen concentration, sensitivity of detection method, temperature and length of incubations, etc. The suitability of this antibody for applications other than those listed below has not been determined. The following concentration ranges are recommended starting points for this product.

ELISA: 0.1-1 µg/ml
Immunoprecipitation (native): 5 µg/IP reaction
Western blotting: 1-2 µg/ml

STORAGE

Store at 2-8°C for up to one month. Store at -20°C for long term storage. Avoid repeated freezing and thawing.

(cont'd)

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PI338900

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BACKGROUND

Proteins of the IQGAP family have been identified as candidate effectors for the Rho family of GTPases. The domain structure of IQGAP family members suggests that these proteins may function as regulators of the cytoskeleton. In particular their sequences include 1) an actin-binding domain homologous to that found in calponin, 2) IQ motifs for interaction with calmodulin, and 3) a GTPase-binding domain. Two IQGAP isoforms have been identified, IQGAP1 and IQGAP2. These proteins share 62% sequence identity. The 189-kDa IQGAP1 protein exhibits a broad tissue distribution and is especially enriched in placenta lung and kidney. On the other hand, the 180-kDa IQGAP2 protein is restricted in its tissue distribution and appears to be expressed exclusively in liver. Both IQGAP1 and IQGAP2 bind to GTP-bound Cdc42 and inhibit the rate of GTP hydrolysis.

REFERENCES

1. Weissbach, L., et al. J. Biol. Chem., 269(32);20517-20521 (1994)
2. McCallum, S.J., et al. J. Biol. Chem., 271(36);21732-21737 (1996)
3. Erickson, J.W., et al. J. Biol. Chem., 272(39);24443-24447 (1997)
4. McCallum, S.J., et al. J. Biol. Chem., 271(35);22537-22544 (1998)

RELATED PRODUCTS

Product	Clone/PAD*	Catalog No.
Rb x RhoGDI-alpha	NGA-25	51-1000
Rb x GDI	poly	71-0300
Rb x Rab 1A/1B	poly	71-5100
Rb x Rab 1B	poly	71-0400
Rb x Rab 3A	poly	71-5200
Rb x Rab 11	poly	71-5300
Ms x RanGAP-1	19C7	33-0800
Ms x v-H-Ras	Y13-259	33-7200

*PAD-Polyclonal Antibody Designation

Product	Conjugate	Catalog No.
Goat anti-Mouse IgG (H+L) (ZyMAX™ Grade)	purified	81-6500
	FITC	81-6511
	TRITC	81-6514
	Cy™3	81-6515
	Cy™5	81-6516
	HRP	81-6520
	AP	81-6522
rec-Protein G	Sepharose® 4B	10-1241
Protein A	Sepharose® 4B	10-1041

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