

DESCRIPTION

Species Reactivity	Human
Specificity	Detects endogenous human IQGAP1 in Western blots.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human IQGAP1 Lys505-Ser717 Accession # P46940
Conjugate	Alexa Fluor 700 Excitation Wavelength: 675-700 nm Emission Wavelength: 723 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

Western Blot Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

IQGAP1 (IQ motif with Ras GAP-related domain 1) is a 195 kDa member of the IQGAP family of proteins. It serves as an effector protein for Rho family members, and regulates actin polymerization. Human IQGAP1 is 1657 amino acids (aa) in length. It contains one actin-binding CH domain (aa 45-159), a Pro-binding WWP region (aa 685-711), four consecutive calmodulin-binding IQ motifs (aa 745-864), and a noncatalytic Ras-GAP domain (aa 1004-1237). Amino acids 763-863 mediate homodimerization. There are at least three IQGAP1 splice variants. One shows a two Lys substitution for aa 270-1657, a second shows a ten Lys substitution for aa 299-1657, and a third shows a three Lys substitution for aa 941-1657.

PRODUCT SPECIFIC NOTICES

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