

DESCRIPTION

Species Reactivity	Human
Specificity	Detects endogenous human IQGAP2 in Western blots.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human IQGAP2 Asn444-Ser633 Accession # Q13576
Conjugate	Alexa Fluor 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 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

IQGAP2 (IQ motif with Ras GAP-related domain 2) is a 180-190 kDa member of the IQGAP family of proteins. It has limited expression (hepatocytes, platelets, parietal cells), binds to GTP-bound Cdc42, blocking GTP hydrolysis, and participates in actin cross-linking. Human IQGAP2 is 1575 amino acids (aa) in length. It contains one actin-binding CH domain (aa 41-156), a Pro-binding WWP region (aa 594-627), three consecutive calmodulin-binding IQ motifs (aa 690-779), and a noncatalytic Ras-GAP domain (aa 917-1150). There are multiple IQGAP2 splice variants. One shows a seven aa substitution for aa 1-454 coupled to a deletion of aa 642-698, while a second shows a 67 aa substitution for aa 303 and 304. IQGAP-2 is 59% aa identical to IQGAP1.

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