

DESCRIPTION

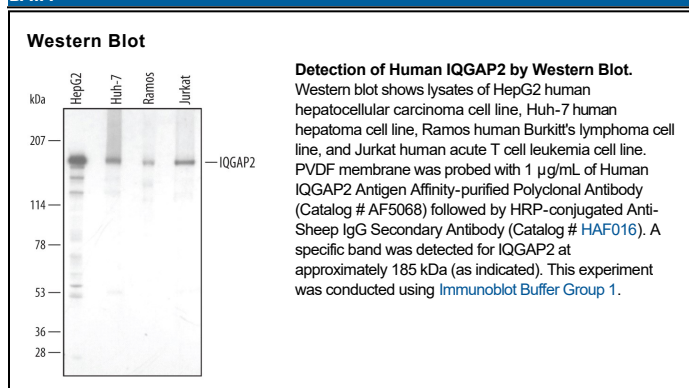
Species Reactivity	Human
Specificity	Detects endogenous human IQGAP2 in Western blots.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human IQGAP2 Asn444-Ser633 Accession # Q13576
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.

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.

	Recommended Concentration	Sample
Western Blot	1 µg/mL	See Below

DATA



PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

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.