

DESCRIPTION

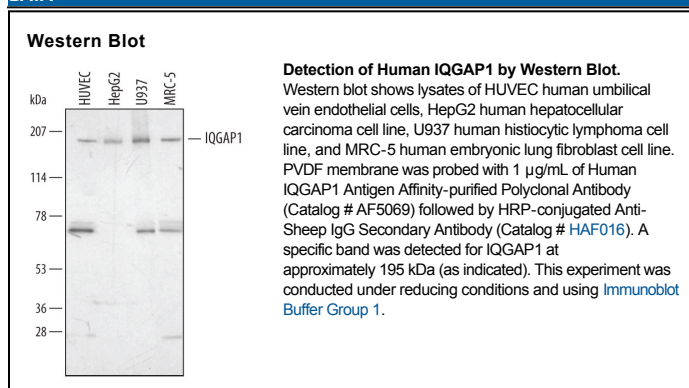
| | |
|---------------------------|---|
| Species Reactivity | Human |
| Specificity | Detects endogenous human IQGAP1 in Western blots. |
| Source | Polyclonal Sheep IgG |
| Purification | Antigen Affinity-purified |
| Immunogen | <i>E. coli</i> -derived recombinant human IQGAP1 Lys505-Ser717 Accession # P46940 |
| 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 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

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.