**ACK (A-11): sc-28336**

**BACKGROUND**

The Ras-related Rho subfamily of GTP-binding proteins (p21s), which includes Rho, Rac and Cdc42Hs, is implicated in different aspects of cytoskeletal organization. These proteins resemble Ras p21 in that their active GTP-bound form is inactivated by intrinsic hydrolysis of the GTP to GDP, which can be stimulated by GTPase-activating proteins (GAPs). ACK, a tyrosine kinase that specifically binds Cdc42Hs in its GTP-bound form, has been described. This binding is mediated by a unique sequence of 47 amino acids C-terminal to an SH3 domain and inhibits both the intrinsic and GAP-stimulated GTPase activity of Cdc42Hs. These findings suggest that ACK may represent a new class of proteins that sustains the GTP-bound active form of the Rho subfamily of GTP binding proteins and which is directly linked to a tyrosine phosphorylation pathway.

**CHROMOSOMAL LOCATION**

Genetic locus: TNK2 (human) mapping to 3q29; Tnk2 (mouse) mapping to 16 B3.

**SOURCE**

ACK (A-11) is a mouse monoclonal antibody raised against amino acids 920-1036 mapping at the C-terminus of ACK of human origin.

**PRODUCT**

Each vial contains 200 µg IgG2b kappa light chain in 1.0 mL of PBS with < 0.1% sodium azide and 0.1% gelatin.

ACK (A-11) is available conjugated to agarose (sc-28336 AC), 500 µg/0.25 ml agarose in 1 mL, for IP; to HRP (sc-28336 HRP), 200 µg/ml, for WB, IHC(P) and WB, IHC(P) and FCM.

Each vial contains 200 µg IgG2b kappa light chain in 1.0 mL of PBS with < 0.1% sodium azide and 0.1% gelatin.

ACK (A-11) is available conjugated to agarose (sc-28336 AC), 500 µg/0.25 ml agarose in 1 mL, for IP; to HRP (sc-28336 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; and to either phycoerythrin (sc-28336 PE), fluorescein (sc-28336 FITC), Alexa Fluor® 488 (sc-28336 AF488) or Alexa Fluor® 647 (sc-28336 AF647), 200 µg/ml, for IF, IHC(P) and FCM.

**RECOMMENDED SUPPORT REAGENTS**

To ensure optimal results, the following support reagents are recommended:

1. Western Blotting: use m-IgG BP-HRP: sc-516102 or m-IgG BP-HRP (Cruz Marker); sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use m-IgG BP-FITC: sc-516140 or m-IgG BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz® Hard-set Mounting Medium: sc-24941 or UltraCruz® Hard-set Mounting Medium: sc-359850.

**DATA**

ACK (A-11) HRP: sc-28336 HRP. Direct western blot analysis of ACK expression in MM-142 (A), EOC 20 (B), HT-1080 (C), HeLa (D) and K-562 (E) whole cell lysates. ACK (A-11): sc-28336. Western blot analysis of ACK expression in MM-142 (A), Neuro-2A (B) and C6 (C) whole cell lysates and rat brain tissue extract (D).

**SELECT PRODUCT CITATIONS**


**STORAGE**

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.