

Basic Information

Product Name	Anti-CDC42 Antibody (Clone#IAE-3)
Gene Name	CDC42
Source	Rabbit
Clonality	Monoclonal
Isotype	IgG
Species Reactivity	human, mouse, rat
Tested Application	WB, IHC, IP, FCM
Contents	500 ug/ml; Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide, 0.4-0.5 mg/ml BSA and 50% glycerol.
Immunogen	A synthesized peptide derived from human CDC42
Concentration	500 ug/ml
Purification	Affinity-chromatography
Observed MW	21 kDa
Dilution Ratios	Western blot (WB): 1:500-2000 Immunohistochemistry (IHC):1:50-200 ImmunoPrecipitation (IP): 1:30 Flow Cytometry (FCM): 1:50

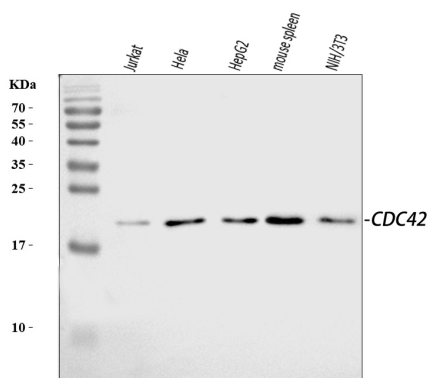
Storage

12 months from date of receipt, -20°C as supplied.

Background Information

Cell division control protein 42 homolog also known as CDC42 is a protein involved in regulation of the cell cycle. In humans, CDC42 is encoded by the CDC42 gene. CDC42 is a small GTPase of the Rho-subfamily, which regulates signaling pathways that control diverse cellular functions including cell morphology, migration, endocytosis and cell cycle progression. This protein is highly similar to *Saccharomyces cerevisiae* Cdc 42, and is able to complement the yeast *cdc42-1* mutant. The product of oncogene *Dbl* was reported to specifically catalyze the dissociation of GDP from this protein. This protein could regulate actin polymerization through its direct binding to Neural Wiskott-Aldrich syndrome protein (N-WASP), which subsequently activates Arp2/3 complex. Alternative splicing of this gene results in multiple transcript variants.

Selected Validation Data



Western blot analysis of anti- Anti-CDC42 Antibody(BM4787). The sample well of each lane was loaded with 50ug of sample under reducing conditions.

Lane 1: Jurkat whole cell lysates,

Lane 2: HELA whole cell lysates,

Lane 3:HepG2 whole cell lysates,

Lane 4: mouse spleen tissue lysates,

Lane 5: NIH3T3 whole cell lysates.

Use rabbit anti- CDC42 1:1000, probed with a goat anti-rabbit IgG-HRP secondary antibody. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002). A specific band was detected for CDC42 at approximately 21KD. The expected band size for CDC42 is at 21KD.