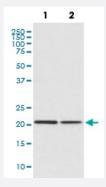


CDC42 monoclonal antibody, clone IAE-3

Catalog # MAB19866 Size 100 uL

Applications



Western Blot (Cell lysate)

Western blot analysis of (1) Jurkat cell lysate; (2) Mouse spleen lysate with CDC42 monoclonal antibody.

Specification	
Product Description	Rabbit monoclonal antibody raised against synthetic peptide of human CDC42.
Immunogen	A synthetic peptide corresponding to human CDC42.
Host	Rabbit
Reactivity	Human, Mouse
Form	Liquid
Purification	Affinity purification
Isotype	lgG
Recommend Usage	Flow Cytometry (1:50) Immunohistochemistry (:50-1:200) Immunoprecipitation (1:30) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.



Product Information

Storage Instruction	Store at -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and st ored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

Western Blot (Cell lysate)

Western blot analysis of (1) Jurkat cell lysate; (2) Mouse spleen lysate with CDC42 monoclonal antibody.

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)
- Immunoprecipitation
- Flow Cytometry

Gene Info — CDC42	
Entrez GenelD	998
Protein Accession#	P60953
Gene Name	CDC42
Gene Alias	CDC42Hs, G25K
Gene Description	cell division cycle 42 (GTP binding protein, 25kDa)
Omim ID	<u>116952</u>
Gene Ontology	<u>Hyperlink</u>
Gene Summary	The protein encoded by this gene 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. [provided by RefSeq



Product Information

Other Designations

GTP-binding protein, 25kD|OTTHUMP00000002834|OTTHUMP00000002926|cell division cycle 42|cell division cycle 42 (GTP binding protein, 25kD)|cell division cycle 42 (GTP-binding protein, 25kD)|dJ224A6.1.1 (cell division cycle 42 (GTP-binding protein, 25kD))|d

Pathway

- Adherens junction
- Axon guidance
- Chemokine signaling pathway
- Endocytosis
- Epithelial cell signaling in Helicobacter pylori infection
- Fc gamma R-mediated phagocytosis
- Focal adhesion
- GnRH signaling pathway
- Leukocyte transendothelial migration
- MAPK signaling pathway
- Neurotrophin signaling pathway
- Pancreatic cancer
- Pathogenic Escherichia coli infection EHEC
- Pathways in cancer
- Regulation of actin cytoskeleton
- Renal cell carcinoma
- T cell receptor signaling pathway
- Tight junction
- VEGF signaling pathway

Disease



- Genetic Predisposition to Disease
- Hepatitis B
- HIV Infections
- Multiple Sclerosis
- Parkinson disease