

Anti-CDC42 Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

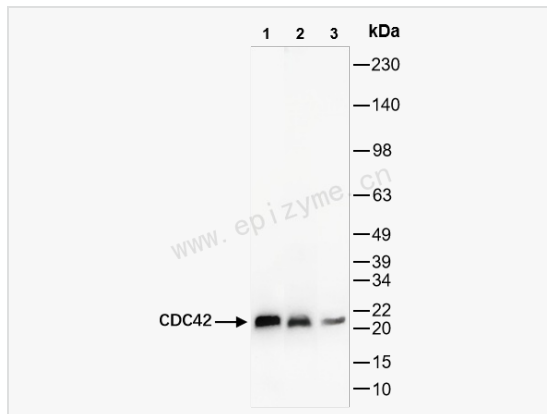
Catalog # R010112

Product Information

Application	WB, IHC-P/IF (Tissue-P), ELISA
Reactivity	Human, Mouse, Rat
Dilution	WB 1:1,000~1:5,000; IHC-P 1:100~1:200; IF 1:100~1:200
Host	Rabbit
Clonality	Monoclonal
Clone No.	11L56M54
Isotype	IgG
Label	Unconjugated
Immunogen	Recombinant protein of human CDC42
Format	Affinity purified monoclonal antibody supplied in PBS with 0.02% sodium azide and 50% glycerol, pH 7.3.
Storage	Shipped on wet ice. Store at -20°C. Stable for 24 months from date of receipt. Aliquoting is unnecessary for -20°C storage.
Precautions	Anti-CDC42 Rabbit mAb [11L56M54] is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Synonyms	Cell division control protein 42 homolog; G25K GTP-binding protein; CDC42.
Calculated MW	Calculated MW: 21 kDa; Observed MW: 21 kDa
Uniprot ID	P60953
Gene ID	998
Background	The protein encoded by this gene is a GTPase which belongs to the RAS superfamily of small GTP-binding proteins. Members of this superfamily appear to regulate a diverse array of cellular events, including the control of cell growth, cytoskeletal reorganization, and the activation of protein kinases. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Mar 2009]
Cellular Location	Cell membrane.Lipid-anchor.Cytoplasmic side.Cytoplasm.Cytoskeleton.Microtubule organizing center.Centrosome.Cytoplasm.Cytoskeleton.Spindle.Midbody.Cell projection.Dendrite.Localizes to spindle during prometaphase cells. Moves to the central spindle as cells progressed through anaphase to telophase (PubMed:15642749). Localizes at the end of cytokinesis in the intercellular bridge formed between two daughter cells (PubMed:15642749). Its localization is regulated by the activities of guanine nucleotide exchange factor ECT2 and GTPase activating protein RACGAP1 (PubMed:15642749). Colocalizes with NEK6 in the centrosome (PubMed:20873783). In its active GTP-bound form localizes to the leading edge membrane of migrating dendritic cells (By similarity).



Western Blot - Anti-CDC42 Rabbit mAb [11L56M54]

All lanes: R010112 at 1:5,000 dilution

Lane 1: U87 (Human malignant glioblastoma epithelial cells) whole cell lysates

Lane 2: Mouse brain whole tissue lysates

Lane 3: Rat brain whole tissue lysates

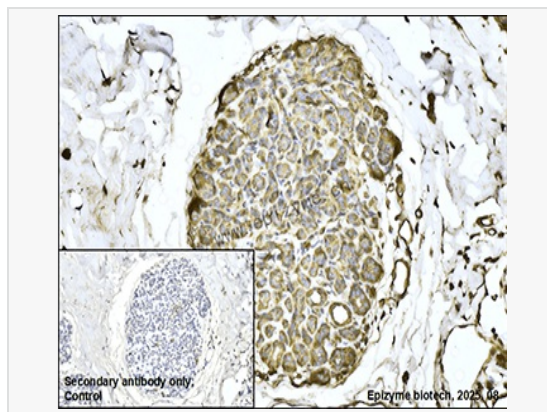
Lysates/proteins at 10 µg per lane.

Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP Conjugated (Cat. No. LF102) at 1:5,000 dilution

Predicted band size: 21 kDa

Observed band size: 21 kDa

Developed using the ECL technique (Cat. No. SQ201).



Immunohistochemistry - Anti-CDC42 Rabbit mAb [11L56M54]

Sample: Paraformaldehyde-fixed, paraffin embedded human breast cancer tissue

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.

Primary antibody: R010112 at 1:200 dilution

Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution

DAB was used as the chromogen.

Counter stained with hematoxylin.

Positive/negative staining were presented.

Only the secondary antibody was used as the negative control.