CDC42 Rabbit mAb

Catalog No: #49282

Package Size: #49282-1 50ul #49282-2 100ul

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

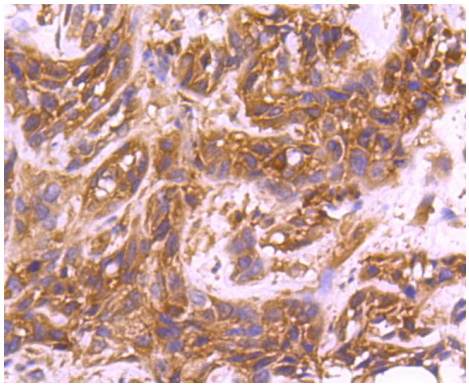
Description

Product Name	CDC42 Rabbit mAb
Host Species	Recombinant Rabbit
Clonality	Monoclonal antibody
Clone No.	JJ086-04
Purification	ProA affinity purified
Applications	WB, IHC, IP, FC
Species Reactivity	Human;Mouse;Rat
Immunogen Description	recombinant protein
Conjugates	Unconjugated
Other Names	CDC42 antibody CDC42_HUMAN antibody CDC42Hs antibody Cell division control protein 42 homolog antibody Cell division cycle 42 (GTP binding protein 25kDa) antibody Cell division cycle 42 antibody dJ224A6.1.1 (cell division cycle 42 (GTP-binding protein, 25kD)) antibody dJ224A6.1.2 (cell division cycle 42 (GTP-binding protein, 25kD)) antibody G25K antibody G25K GTP-binding protein antibody Growth regulating protein antibody GTP binding protein 25kDa antibody Small GTP binding protein CDC42 antibody TKS antibody
Accession No.	Swiss-Prot#:P60953
Calculated MW	21 kDa
SDS-PAGE MW	21 kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

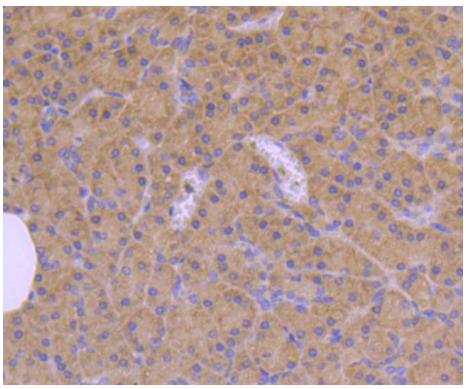
Application Details

WB: 1:1,000IHC: 1:50-1:200FC: 1:50-1:100

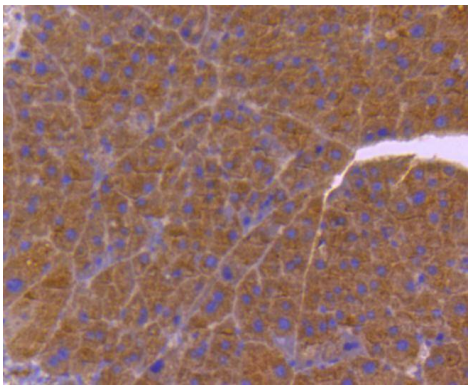
Images



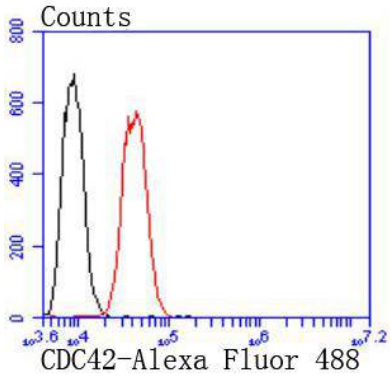
Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using anti-CDC42 antibody. Counter stained with hematoxylin.



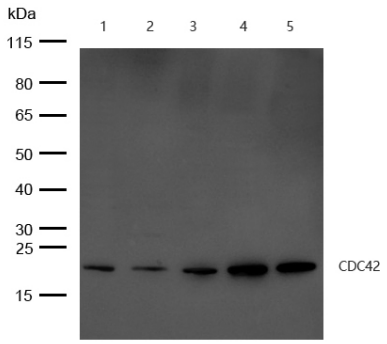
Immunohistochemical analysis of paraffin-embedded human pancreas tissue using anti-CDC42 antibody. Counter stained with hematoxylin.



Immunohistochemical analysis of paraffin-embedded mouse pancreas tissue using anti-CDC42 antibody. Counter stained with hematoxylin.



Flow cytometric analysis of Hela cells with CDC42 antibody at 1/50 dilution (red) compared with an unlabelled control (cells without incubation with primary antibody; black). Alexa Fluor 488-conjugated goat anti rabbit IgG was used as the secondary antibody.



All lanes: CDC42 Rabbit mAb at 1/1k dilution

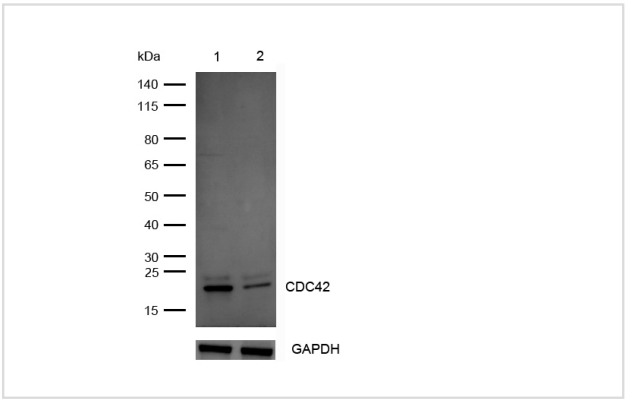
Lane 1 : Hela whole cell lysates
Lane 2 : JK whole cell lysatesLane 3 : C6 whole cell lysatesLane 4 : Mouse brain lysatesLane 5 : Rat brain lysates

Lysates/proteins at 20 µg per lane.

Secondary
All lanes : Goat Anti-Rabbit IgG H&L (HRP) at 1/20000 dilution

Predicted band size: 21 kDa
Observed band size: 21 kDa

Exposure time: 3 seconds



All lanes:CDC42 Rabbit mAb at 1/1k dilution

Lane 1 : Wild-type Hela cell lysate
Lane 2 : CDC42 knockdown Hela cell lysate

Lysates/proteins at 20 µg per lane.

Background

The superfamily of GTP-binding proteins, for which the Ras proteins are prototypes, has been implicated in regulation of diverse biological activities involving various aspects of cell growth and division. One mammalian member of the family, Cdc42, has an amino acid sequence that is similar to those of various members of the Ras superfamily proteins, including N-, K- and H-Ras, Rho proteins and the Rac proteins. On the basis of in vitro phosphorylation studies, it has been suggested that human Cdc42 may function in the signaling pathway of the EGF receptor or related growth factor receptor protein kinases. The Dbl oncogene has been shown to specifically catalyze dissociation of GDP from human Cdc42.

References

1. Gerasimcik N et al. The Rho GTPase Cdc42 Is Essential for the Activation and Function of Mature B Cells. J Immunol 194:4750-8 (2015). 2. Francis MK et al. Endocytic membrane turnover at the leading edge is driven by a transient interaction between Cdc42 and GRAF1. J Cell Sci 128:4183-95 (2015).

Published Papers

el at., A transcribed ultraconserved noncoding RNA, uc.285+, promotes colorectal cancer proliferation through dual targeting of CDC42 by directly binding mRNA and protein. In Transl Res on 2024 Aug by Sixian Chen, Qingyun Zhao,et al..PMID:38552953, , (2024)

PMID:38552953

Chen Sixian;Zhao Qingyun;Zhang Ruirui;Liu Jungang;Peng Wenyi;Xu Haotian;Li Xiaofei;Wang Xin;Wu Shuilian;Li Gang;Nan Aruo el at., A transcribed ultraconserved noncoding RNA, uc.285+, promotes colorectal cancer proliferation through dual targeting of CDC42 by directly binding mRNA and protein, , (2024)

PMID:

Note: This product is for in vitro research use only and is not intended for use in humans or animals.