

Datasheet for ABIN969066

anti-CRTC1 antibody

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Overview

Quantity:	100 µL
Target:	CRTC1
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This CRTC1 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Flow Cytometry (FACS), Immunocytochemistry (ICC)

Product Details

Immunogen:	Purified recombinant fragment of human CRTC1 expressed in E. coli. ,
Clone:	1B5
Isotype:	IgG1
Purification:	purified

Target Details

Target:	CRTC1
Alternative Name:	CRTC1 (CRTC1 Products)
Background:	Description: MECT1 (also known as MucoEpidermoid Carcinoma Translocated 1) functions as a transcriptional coactivator for CREB1, which activates transcription through both consensus and variant cAMP response element (CRE) sites. MECT1 does not appear to modulate CREB1 DNA-binding activity but enhances the interaction of CREB1 with TAF4/TAFII-130. MECT1

Target Details

translocates with MAML2 (MasterMind-Like Protein 2) to yield a fusion oncogene: t(11,19) (q21,p13). This translocation occurs in mucoepidermoid carcinomas, benign Warthin tumors and clear cell hidradenomas. The novel fusion product that results disrupts the Notch signaling pathway. The fusion protein consists of the N-terminus of MECT1 joined to the C-terminus of MAML2. The reciprocal fusion protein consisting of the N-terminus of MAML2 joined to the C-terminus of MECT1 has been detected in a small number of mucoepidermoid carcinomas. Multiple isoforms have been reported for the MECT1 protein. Tissue specificity: Highly expressed in adult and fetal brain. Located to specific regions such as the prefrontal cortex and cerebellum. Very low expression in other tissues such as heart, spleen, lung, skeletal muscle, salivary gland, ovary and kidney.

Aliases: MECT1, TORC1, WAMTP1, FLJ14027, KIAA0616, CRTG1

Molecular Weight:	67 kDa
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Gene ID:	23373
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HGNC:	23373
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Application Details

Application Notes:	ELISA: 1:10000, WB: 1:500 - 1:2000, ICC: 1:200 - 1:1000, FCM: 1:200 - 1:400
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Restrictions:	For Research Use only
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Handling

Format:	Liquid
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Buffer:	Ascitic fluid containing 0.03 % sodium azide.
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Preservative:	Sodium azide
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Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
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Storage:	4 °C/-20 °C
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Storage Comment:	4°C, -20°C for long term storage
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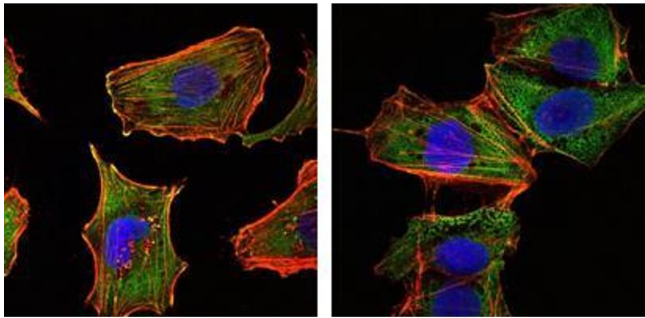
Publications

Product cited in:	Mohan, Mohan, Wilson: "Discoidin domain receptor (DDR) 1 and 2: collagen-activated tyrosine kinase receptors in the cornea." in: Experimental eye research , Vol. 72, Issue 1, pp. 87-92, (2001)
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) ([PubMed](#)).

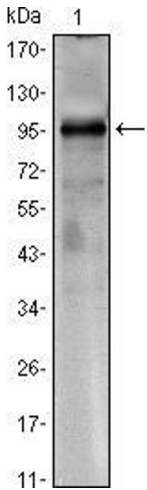
Foehr, Tatavos, Tanabe, Raffioni, Goetz, Dimarco, De Luca, Bradshaw: "Discoidin domain receptor 1 (DDR1) signaling in PC12 cells: activation of juxtamembrane domains in PDGFR/DDR/TrkA chimeric receptors." in: **FASEB journal : official publication of the Federation of American Societies for Experimental Biology**, Vol. 14, Issue 7, pp. 973-81, (2000) ([PubMed](#)).

Images



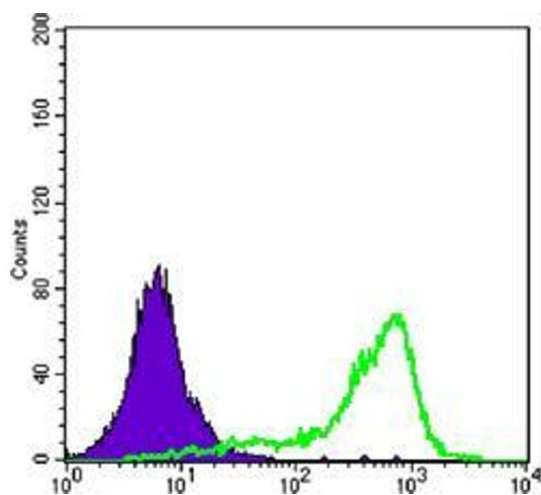
Immunofluorescence

Image 1. Immunofluorescence analysis of U251 (left) and NTERA2 (right) cells using CRTC1 mAb (green). Red: Actin filaments have been labeled with DY-554 phalloidin. Blue: DRAQ5 fluorescent DNA dye.



Western Blotting

Image 2. Western blot analysis using CRTC1 mouse mAb against CRTC1(AA: 1-353)-hlgGfc transfected HEK293 cell lysate.



Flow Cytometry

Image 3. Flow cytometric analysis of K562 cells using CRTC1 mouse mAb (green) and negative control (purple).