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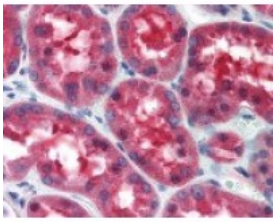
CRTC1 Antibody

CATALOG NUMBER: 49-411



Immunohistochemistry staining of CRTC1 in kidney tissue using CRTC1 Antibody.

Specifications

SPECIES REACTIVITY:	Bovine, Human, Mouse, Pufferfish, Rat, Zebrafish
TESTED APPLICATIONS:	ELISA, IF, IHC, WB
APPLICATIONS:	CRTC1 antibody can be used in ELISA starting at 1:14000 - 1:80000, Western Blot starting at 1:100 - 1:8000, immunohistochemistry starting at 5 ug/mL, and immunofluorescence.
USER NOTE:	Optimal dilutions for each application to be determined by the researcher.
IMMUNOGEN:	CRTC1 antibody was raised against amino acids 19 - 34 of CRTC1 (Human).
HOST SPECIES:	Rabbit

Properties

PURIFICATION:	Immunoaffinity Chromatography
PHYSICAL STATE:	Liquid
BUFFER:	0.02 M potassium phosphate, 0.15 M sodium chloride, pH 7.2, 0.01% sodium azide.
STORAGE CONDITIONS:	Store CRTC1 antibody at 4 ˚C or -20 ˚C. As with all antibodies avoid freeze/thaw cycles.
CLONALITY:	Polyclonal
CONJUGATE:	Unconjugated

Additional Info

ALTERNATE NAMES:	CRTC1, KIAA0616, MECT1, TORC-1, TORC1, Transducer of CREB protein 1, WAMTP1
ACCESSION NO.:	Q6UUV9
PROTEIN GI NO.:	68565585
OFFICIAL SYMBOL:	CRTC1
GENE ID:	23373

Background

BACKGROUND:	MECT1 (also known as MucoEpidermoid Carcinoma Translocated 1, Transducer of regulated cAMP response element-binding protein 1, TORC1, and Transducer of CREB protein 1) is a nuclear protein that functions as a transcriptional coactivator for CREB1, which activates transcription through both consensus and variant cAMP

response element (CRE) sites. MECT1does not appear to modulate CREB1 DNA-binding activity but enhances the interaction of CREB1 with TAF4/TAFII-130. MECT1 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.

FOR RESEARCH USE ONLY

December 13, 2016