Product Name: CRTC1 Mouse Monoclonal Antibody
Catalog #: AMM03451
For research use only.

Summary

Description	Mouse monoclonal Antibody
Host	Mouse
Application	WB,ICC/IF,FC,IP
Reactivity	Human
Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG2b
Clonality	Monoclonal
Form	Liquid
Concentration	1mg/ml
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% sodium azide, pH 7.3.
Purification	Affinity Purification

Application

Dilution Ratio	WB 1:500-1:1000,ICC/IF 1:50-1:200,FC 1:50-1:100,IP 1:20-1:50
Molecular Weight	Calculated MW: 67 kDa; Observed MW: 78 kDa

Antigen Information

Gene Name	CRTC1
Alternative Names	MECT1; TORC1; WAMTP1; FLJ14027; KIAA0616; CRTC1
Gene ID	23373
SwissProt ID	Q6UUV9
Immunogen	A synthetic peptide of human TORC1

Background

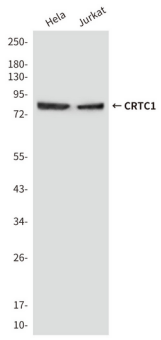
MECT1 (also known as MucoEpidermoid Carcinoma Translocated 1) functions as a transcriptional coactivator for CREB1, which activates transcription through both consensus and variant cAMP response element (CRE) sites. MECT1 does not appear to

modulate CREB1 DNA-binding activity but enhances the interaction of CREB1 with TAF4/TAFII-130. MECT1 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.

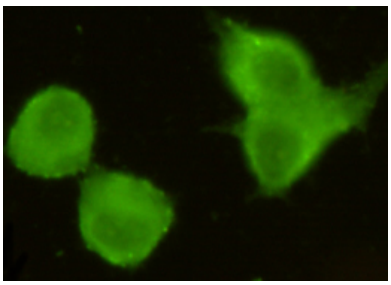
Research Area

Signal Transduction

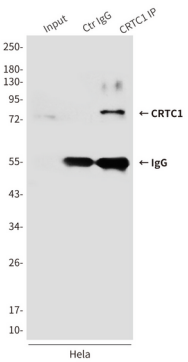
Image Data



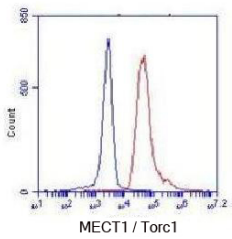
Western blot analysis of MECT1 / Torc1 in Hela and Jurkat lysates using MECT1 / Torc1 antibody.



Immunocytochemistry analysis of CRTC1 in Hela using MECT1 / Torc1 antibody.



Immunoprecipitation analysis of CRTC1 in Hela cell lysates using MECT1 / Torc1 antibody.



Flow Cytometry analysis of CRTC1 in K562 cells using CRTC1 antibody (red). Blue line histogram represents the isotype control.