CRTC1 MOUSE MAB

Cat.#: N261045

Product Name: Anti-CRTC1 Mouse Monoclonal Antibody

Synonyms: MECT1; TORC1; WAMTP1; FLJ14027; KIAA0616; CRTC1

UNIPROT ID: Q6UUV9

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.

Immunogen: Purified recombinant human MECT1 / Torc1 protein fragments expressed in E.coli.

Applications: WB,ICC/IF,IP,FC

Recommended Dilutions: WB: 1/500-1/1000 IF: 1/50-1/200 IP: 1/20 FC: 1/50-1/100

Host Species: Mouse

Clonality: Mouse Monoclonal

Clone ID: 3D7-E5-D9

MW: Calculated MW: 67 kDa; Observed MW: 78 kDa

Isotype: IgG2b

Purification: Affinity Purified

Species Reactivity: Human

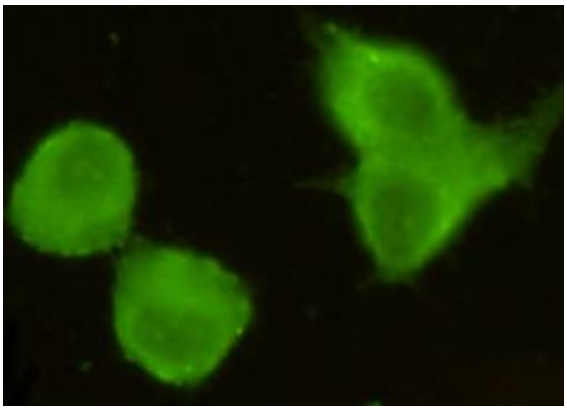
Conjugation: Unconjugated

Modification: Unmodified

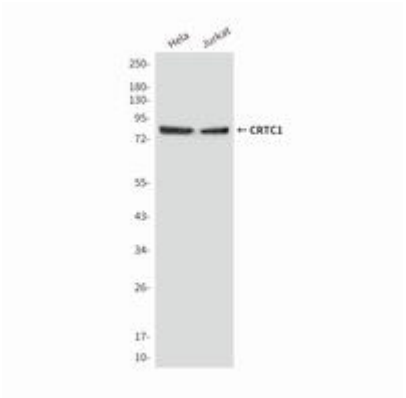
Constituents: PBS (without Mg2+ and Ca2+), pH 7.3 containing 50% glycerol, 0.5% BSA and 0.02% sodium azide

Research Areas: Signal Transduction

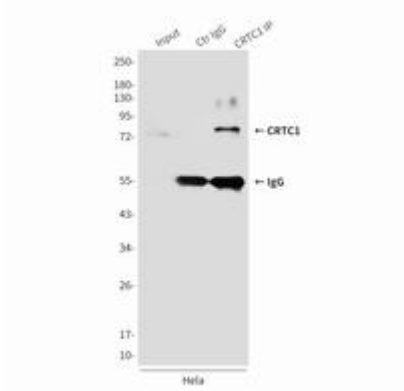
Storage & Shipping: Store at -20°C. Avoid repeated freezing and thawing



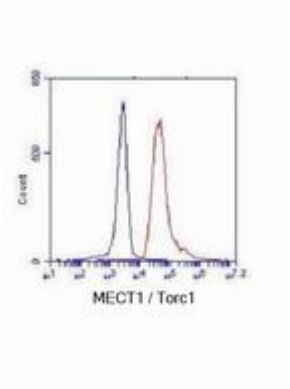
Immunocytochemistry analysis of CRTC1 in Hela using MECT1 / Torc1 antibody.



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