

## Product datasheet for **AM06483SU-N**

### **TORC1 (CRTC1) Mouse Monoclonal Antibody [Clone ID: 1B5]**

#### **Product data:**

Product Type:	Primary Antibodies
Clone Name:	1B5
Applications:	ELISA, FC, IF, WB
Recommended Dilution:	<b>Western Blot:</b> 1/500 - 1/2000. <b>Immunofluorescence:</b> 1/200 - 1/1000. <b>Flow cytometry:</b> 1/200 - 1/400. <b>ELISA:</b> 1/10000.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Purified recombinant fragment of human CRTC1 expressed in E. Coli.
Specificity:	This antibody reacts to CRTC1.
Formulation:	State: Ascites State: Ascitic fluid containing 0.03% sodium azide.
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	67 kDa
Gene Name:	CREB regulated transcription coactivator 1
Database Link:	<a href="#">Entrez Gene 23373 Human Q6UUV9</a>



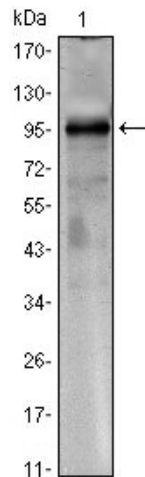
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**Background:**

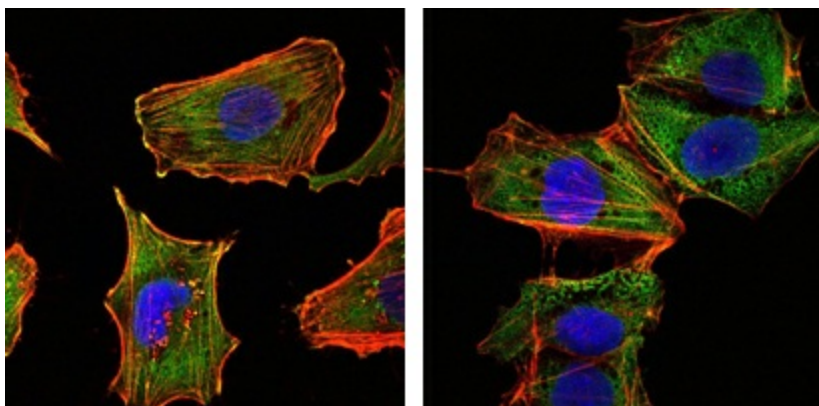
MECT1 (also known as MucoEpidermoid Carcinoma Translocated 1) functions as a transcriptional coactivator for CREB1, which activates transcription through both consensus and variant cAMP response element (CRE) sites. MECT1 does not appear to modulate CREB1 DNA-binding activity but enhances the interaction 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.

**Synonyms:**

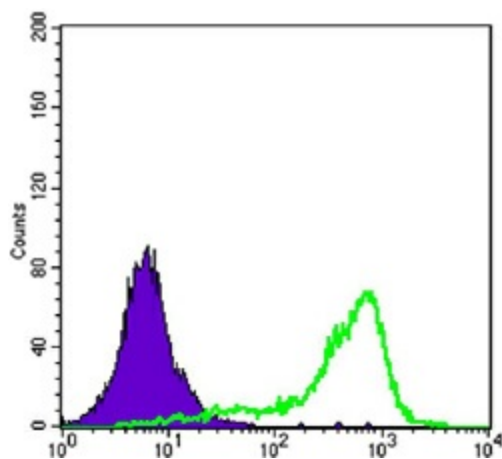
KIAA0616, TORC1, WAMTP1

**Product images:**

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



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.



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