

MECT1/Torc1 mouse mAb

Catalog No	YP-Ab-01083		
Isotype	lgG		
Reactivity	Human		
Applications	WB;FC;ICC;IP		
Gene Name	crtc1		
Protein Name			
Immunogen	Purified recombinant human MECT1 / Torc1 protein fragments expressed in E.coli.		
Specificity	This antibody detects endogenous levels of MECT1 / Torc1 and does not cross-react with related proteins.		
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.		
Source	Monoclonal, Mouse		
Purification	The antibody was affinity-purified from mouse ascites by affinity-chromatography using epitope-specific immunogen.		
Dilution	wb 1:1000 icc 1:300 fcm 1:100		
Concentration	1 mg/ml		
Purity	≥90%		
Storage Stability	-20°C/1 year		
Synonyms	KIAA0616;CREB regulated transcription coactivator 1;CREB-regulated transcription coactivator 1;CRTC1;CRTC1_HUMAN;FLJ14027;KIAA0616;MECT 1;Mucoepidermoid carcinoma translocated 1;Mucoepidermoid carcinoma translocated protein 1;TORC-1;TORC1;Transducer of CREB protein 1;Transducer of regulated cAMP response element binding protein 1; Transducer of regulated cAMP response element-binding protein (CREB) 1;Transducer of regulated cAMP response element-binding protein 1;WAMTP1.		
Observed Band	78kD		
Cell Pathway	Cytoplasm . Nucleus . Cytoplasmic when phosphorylated by SIK or AMPK and when sequestered by 14-3-3 proteins (PubMed:16817901). Translocated to the nucleus on Ser-151 dephosphorylation, instigated by a number of factors including calcium ion and cAMP levels (PubMed:15589160). Light stimulation triggers a nuclear accumulation in the suprachiasmatic nucleus (SCN) of the brain (By similarity).		
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.		
Function	disease:A chromosomal aberration involving CRTC1 is found in mucoepidermoid		



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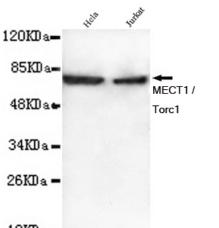
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	carcinomas, benign Warthin tumors and clear cell hidradenomas. Translocation t(11;19)(q21;p13) with MAML2. The fusion protein consists of the N-terminus of CRTC1 joined to the C-terminus of MAML2. The reciprocal fusion protein consisting of the N-terminus of MAML2 joined to the C-terminus of CRTC1 has been detected in a small number of mucoepidermoid carcinomas.,function:Transcriptional coactivator for CREB1 which activates transcription through both consensus and variant cAMP response element (CRE) sites. Acts as a coactivator, in the SIK/TORC signaling pathway, being active when dephosphorylated and acts independently of CREB1 'Ser-133' phosphorylation. Enhances the interaction of CREB1 with TAF4. Regulates the expression of specific CREB-activated genes such as the steroidogenic gene, StAR. Potent coactivator			
Background	carc t(11 CRT consise carc tran sites pho expl StAl in m virus in la colla Ser- inac This is de Pho to th inclu Ser- inclu Ser- sucl sucl sucl carc tran sites sucl sucl sucl sucl sucl sucl sucl suc	ease:A chromosomal aberration involving C cinomas, benign Warthin tumors and clear (19)(q21;p13) with MAML2. The fusion pro TC1 joined to the C-terminus of MAML2. The sisting of the N-terminus of MAML2 joined in detected in a small number of mucoepide cinomas.,function:Transcriptional coactivato scription through both consensus and varia s. Acts as a coactivator, in the SIK/TORC s en dephosphorylated and acts independent sphorylation. Enhances the interaction of C ression of specific CREB-activated genes s R. Potent coactivator of PGC1alpha and in nuscle cells. Also coactivator for TAX activa s type 1 (HTLV-1) long terminal repeats (L te-phase long-term potentiation (L-LTP) m ateral-CA1 synapses.,PTM:Phosphorylation -151 are required for regulating transductio tive when phosphorylated, and active whe s primary site of phosphorylation of SIKs b sphorylated upon DNA damage, probably the TORC family.,subcellular location:Cytopl MPK and when sequestered by 14-3-3 pro he nucleus on Ser-151 dephosphorylation, uding calcium ion and cAMP levels.,subuni erminal region, with the bZIP domain of CR REB1 is essential for this interaction. Intera ances recruitment of TAF4 to CREB1. Bind cificity:Highly expressed in adult and fetal to h as heart, spleen, lung, skeletal muscle, si	cell hidradenomas. Translocation tein consists of the N-terminus of he reciprocal fusion protein to the C-terminus of CRTC1 has ermoid or for CREB1 which activates ant cAMP response element (CRE) signaling pathway, being active ly of CREB1 'Ser-133' CREB1 with TAF4. Regulates the such as the steroidogenic gene, ducer of mitochondrial biogenesis ation of the human T-cell leukemia TR). In the hippocampus, involved aintenance at the Schaffer n/dephosphorylation states of on of CREB activity. TORCs are n dephosphorylated at this site. ed by cAMP and calcium levels and y LKB1 (By similarity). by ATM or ATR.,similarity:Belongs lasmic when phosphorylated by SIK oteins (By similarity). Translocated instigated by a number of factors t:Binds, as a tetramer, through its EB1. 'Arg-314' in the bZIP domain action, via its C-terminal, with TAF4, ds HTLV1 Tax.,tissue orain. Located to specific regions Very low expression in other tissues	
matters needing attention	Avo	id repeated freezing and thawing!		
Usage suggestions	This mor	product can be used in immunological rea e information, please consult technical per	action related experiments. For sonnel.	

Products Images



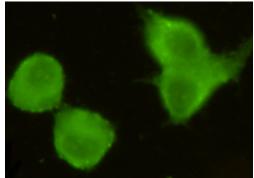
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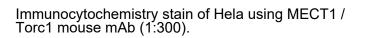
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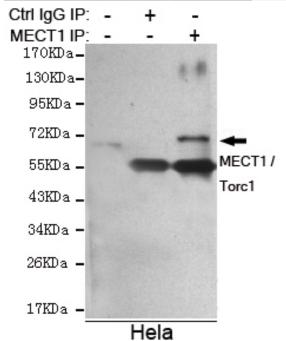


Western blot detection of MECT1 / Torc1 in Hela and Jurkat lysates using MECT1 / Torc1 mouse mAb (1:1000 diluted).Predicted band size: 78KDa.Observed band size: 78KDa.

19KD a 🗕







Immunoprecipitation analysis of Hela cell lysate using MECT1 / Torc1 mouse mAb.



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Flow Cytometry analysis of K562 cells stained with TORC1(N-terminus) (red, 1/100 dilution), followed by FITC-conjugated goat anti-mouse IgG. Blue line histogram represents the isotype control, normal mouse IgG.

