Best Tools for immunology Research

TORC3 Monoclonal Antibody

Catalog No :	YM0626
Reactivity :	Human;Monkey
Applications :	WB;IHC;IF;ELISA
Target :	TORC3
Fields :	>>Human T-cell leukemia virus 1 infection
Gene Name :	CRTC3
Protein Name :	CREB-regulated transcription coactivator 3
Human Gene Id :	64784
Human Swiss Prot No :	Q6UUV7
Mouse Swiss Prot No :	Q91X84
Immunogen :	Purified recombinant fragment of human TORC3 expressed in E. Coli.
Specificity :	TORC3 Monoclonal Antibody detects endogenous levels of TORC3 protein.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Monoclonal, Mouse
Dilution :	WB 1:500 - 1:2000. IHC 1:200 - 1:1000. IF 1:200 - 1:1000. ELISA: 1:10000. Not yet tested in other applications.
Purification :	Affinity purification
Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)
Molecularweight :	67kD

P References :

1. Mod Pathol. 2009 Dec;22(12):1575-81.
2. Genes Chromosomes Cancer. 2008 Mar;47(3):203-6.

Background :

This gene is a member of the CREB regulated transcription coactivator gene family. This family regulates CREB-dependent gene transcription in a phosphorylation-independent manner and may be selective for cAMP-responsive genes. The protein encoded by this gene may induce mitochondrial biogenesis and attenuate catecholamine signaling in adipose tissue. A translocation event between this gene and Notch coactivator mastermind-like gene 2, which results in a fusion protein, has been reported in mucoepidermoid carcinomas. Alternative splicing results in multiple transcript variants that encode different protein isoforms. [provided by RefSeq, Jul 2012],

Function :

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 of PPARGC1A and inducer of mitochondrial biogenesis in muscle cells. Also coactivator for TAX activation of the human T-cell leukemia virus type 1 (HTLV-1) long terminal repeats (LTR).,similarity:Belongs to the TORC family.,subcellular location:Appears to be mainly nuclear.,subunit:Binding, as a tetramer, through its N-terminal region, with the bZIP domain of CREB1 enhances recruitment of TAF4 to the promoter. 'Arg-314' in the bZIP domai

Subcellular Location :

Nucleus . Cytoplasm . Appears to be mainly nuclear (PubMed:15454081). Translocates to the nucleus following adenylyl cyclase or MAP kinase activation (PubMed:30611118). .

Expression :

Predominantly expressed in B and T lymphocytes. Highest levels in lung. Also expressed in brain, colon, heart, kidney, ovary, and prostate. Weak expression in liver, pancreas, muscle, small intestine, spleen and stomach.

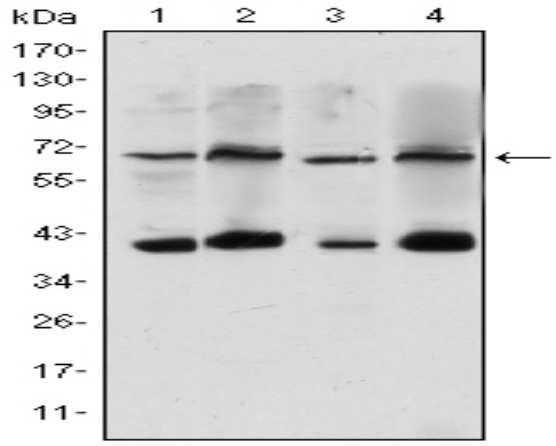
Sort : 17300

No4 : 1

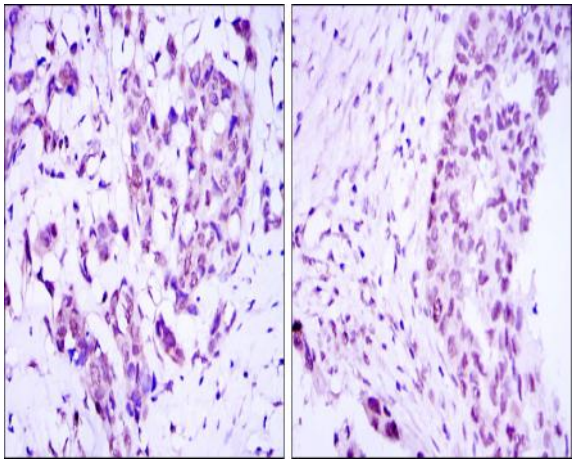
Host : Mouse

Modifications : Unmodified

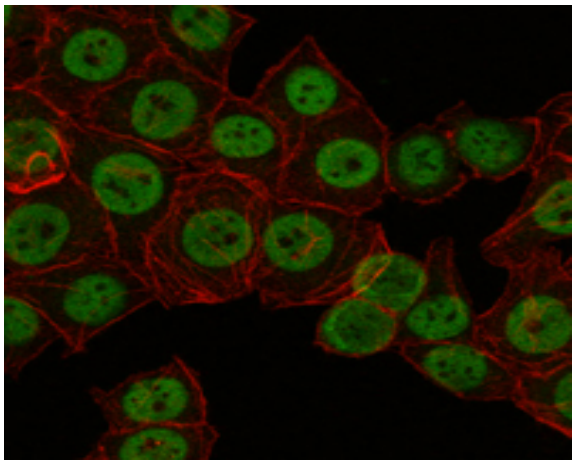
Products Images



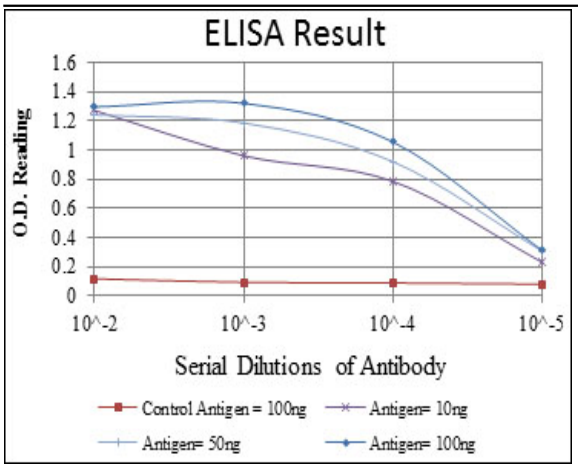
Western Blot analysis using TORC3 Monoclonal Antibody against HeLa (1), Jurkat (2), Cos7 (3) and MCF-7 (4) cell lysate.



Immunohistochemistry analysis of paraffin-embedded breast cancer (left) and ovarian cancer (right) with DAB staining using TORC3 Monoclonal Antibody.



Immunofluorescence analysis of NTERA-2 cells using TORC3 Monoclonal Antibody (green). Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin.


ELISA Result
O.D. Reading
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
10^-2
10^-3
10^-4
10^-5
Serial Dilutions of Antibody
Control Antigen = 100ng
Antigen= 10ng
Antigen= 50ng
Antigen= 100ng