CREB(Ab-129) Antibody

Catalog No: #21265

Package Size: #21265-1 50ul #21265-2 100ul #21265-4 25ul

Overview

Product Name	CREB(Ab-129) Antibody
Host Species	Rabbit
Clonality	Polyclonal
Applications	WB IHC
Species Reactivity	Hu Ms Rt
Immunogen Type	Peptide-KLH
Target Name	CREB
Alternative Names	CREB-1; CREB1;

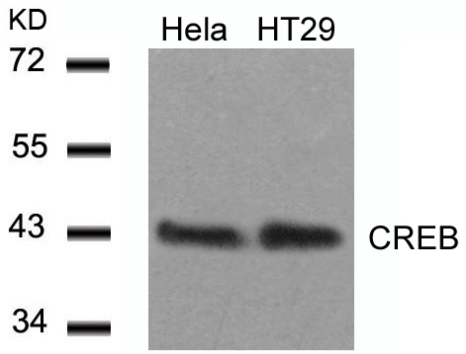
Application Details

Predicted MW: 43kd

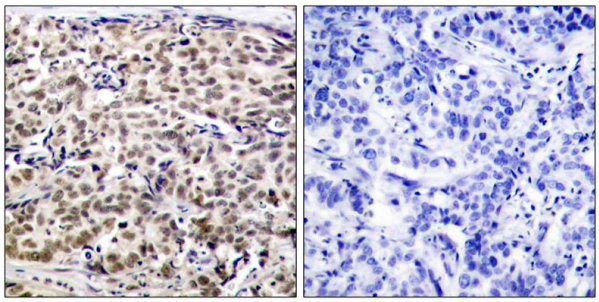
Western blotting: 1:500~1:1000

Immunohistochemistry: 1:50~1:100

Images



Western blot analysis of extracts from Hela and HT29 cells using CREB(Ab-129) Antibody #21265.



Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using CREB(Ab-129) Antibody #21265(left) or the same antibody preincubated with blocking peptide(right).

Descriptions

Immunogen	Peptide sequence around aa.127~131 (I-L-S-R-R) derived from Human CREB.
Specificity	The antibody detects endogenous level of total CREB protein.
Purifiction	Antibodies were produced by immunizing rabbits with synthetic peptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific peptide.
Formulation	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage	Store at -20°C for long term preservation (recommended). Store at 4°C for short term use.
Accession NO.	Swiss-Prot: P16220NCBI Protein: NP _004370.1

Related Information

CREB1 is a transcription factor that is a member of the bZIP family of DNA binding proteins. It binds as a homodimer to the CRE (cAMP-Responsive Element), an octameric palindrome containing a conserved core sequence, 5-prime-TGACG-3-prime. It consists of two transcript variants encoding respective isoforms produced by alternate splicing. It is mapped to 2q32.3-q34 . It is phosphorylated by several protein kinases and induces transcription of genes in response to hormonal stimulation of the cAMP pathway. CREB1 is crucial for the consolidation of long-term conditioned fear memories, but not for encoding, storage, or retrieval of these memories. It is required for the stability of reactivated or retrieved conditioned fear memories .

Chrystelle V. Garat, et al. (2006) Mol. Cell. Biol ; 26: 4934 - 4948.
Lilah Rothem,et al. (2004) Mol. Pharmacol ; 66: 1536 - 1543.
Darren R. Tyson, et,al. (2002) Endocrinology; 143: 674.
Kyung-Woo Park, et al. (2003) Arterioscler. Thromb. Vasc. Biol ; 23: 1364.