Product Datasheet

ATF4(Phospho-Ser245) Antibody

Catalog No: #11053

Package Size: #11053-1 50ul #11053-2 100ul

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

Description

Product Name	ATF4(Phospho-Ser245) Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Antibodies were produced by immunizing rabbits with synthetic phosphopeptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific phosphopeptide. Non-phospho specific antibodies were removed by chromatogramphy using non-phosphopeptide.
Applications	IHC WB
Species Reactivity	Hu
Specificity	The antibody detects endogenous level of ATF4 only when phosphorylated at serine 245.
Immunogen Type	Peptide-KLH
Immunogen Description	Peptide sequence around phosphorylation site of serine 245 (N-R-S(p)-L-P) derived from Human ATF4.
Target Name	ATF4
Modification	Phospho
Other Names	C/ATF; C/EBP-related ATF; CREB2
Accession No.	Swiss-Prot: P18848NCBI Protein: NP _001666.2
Concentration	1.0mg/ml
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.

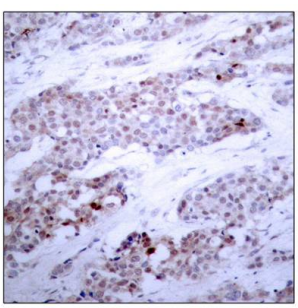
Application Details

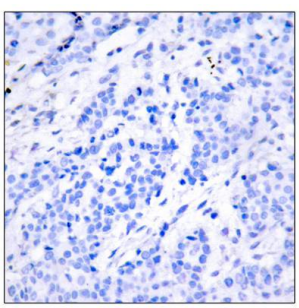
Predicted MW: 45kd

Western blotting: 1:500~1:1000

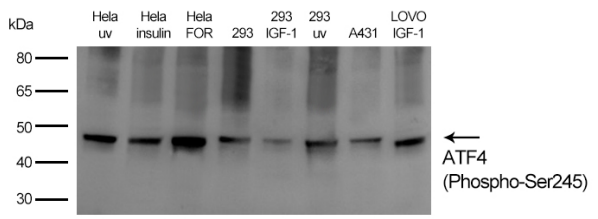
Immunohistochemistry: 1:50~1:100

Images





Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using ATF4(Phospho-Ser245) Antibody #11053(left) or the same antibody preincubated with blocking peptide(right).



Western Blot analysis of various cell lysis using Antibody diluted at 1:500.

Background

ATF4 encodes a transcription factor that was originally identified as a widely expressed mammalian DNA binding protein that could bind a tax-responsive enhancer element in the LTR of HTLV-1. The encoded protein was also isolated and characterized as the cAMP-response element binding protein 2 (CREB-2). The protein encoded by this gene belongs to a family of DNA-binding proteins that includes the AP-1 family of transcription factors, cAMP-response element binding proteins (CREBs) and CREB-like proteins. These transcription factors share a leucine zipper region that is involved in protein-protein interactions, located C-terminal to a stretch of basic amino acids that functions as a DNA binding domain. Two alternative transcripts encoding the same protein have been described. Two pseudogenes are located on the X chromsome at q28 in a region containing a large inverted duplication.

Yang X, et al. (2004). Cell.117(3): 387-398.

Note: This product is for in vitro research use only and is not intended for use in humans or animals.