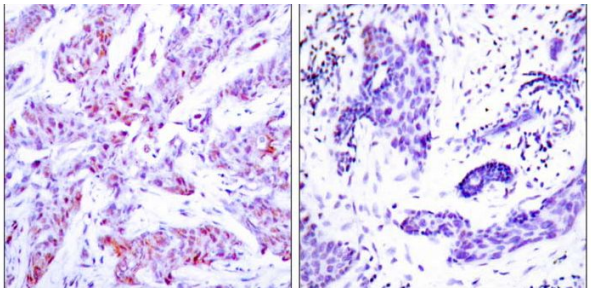
ATF-4(Ab-245) Antibody

#21053

Catalog Number: 21053-1, 21053-2
Amount: 50μg/50μl, 100μg/100μl
Swiss-Prot No. :P18848
Form of Antibody: Rabbit IgG in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl,0.02% sodium azide and 50% glycerol.
Storage/Stability: Store at -20℃/1 year
Immunogen: The antiserum was produced against synthesized non-phosphopeptide derived from human ATF-4 around the phosphorylation site of serine 245 (N-R-S^{P}-L-P).
Purification: The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Specificity/Sensitivity:ATF-4 (Ab-245) antibody detects endogenous levels of total ATF-4 protein
Reactivity: Human,Mouse,Rat
Applications:
Predicted MW: 45 kd WB: 1:500~1:1000 IHC:1:50~1:100



Immunohistochemical analysis of human paraffin-embedded human breast carcinoma tissue using ATF4 (Ab-245) antibody (#21053).

Peptide − +

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.

References:

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