



ATF-4 (Phospho-Ser245) Antibody

#11053

Catalog Number: 11053-1, 11053-2

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°C/1 year

Immunogen: The antiserum was produced against synthesized phosphopeptide derived from human ATF-4 around the phosphorylation site of serine 245 (N-R-S^P-L-P).

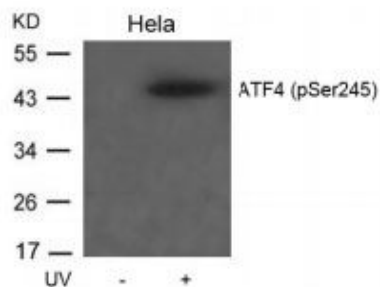
Purification: The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific phosphopeptide. The antibody against non-phosphopeptide was removed by chromatography using non-phosphopeptide corresponding to the phosphorylation site.

Specificity/Sensitivity: ATF-4 (phospho-Ser245) antibody detects endogenous levels of ATF-4 only when phosphorylated at serine 245

Reactivity: Human, Mouse, Rat

Applications:

Predicted MW: 45 kd WB: 1:500~1:1000 IHC: 1:50~1:100



Western blot analysis of extracts from HeLa cells untreated or treated with UV using ATF4(Phospho-Ser245) Antibody #11053.

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 chromosome at q28 in a region containing a large inverted duplication.

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