ATF4 (Phospho-Ser245) Polyclonal Antibody

ORDERING INFORMATION

Catalog No.: 43053

Format: 100ul at 1.0mg/ml in PBS (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Affinity-purified on phosphopeptide; non-phosphopeptide-reactive antibodies were removed by chromatography on non-phosphorylated 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. ATF4 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. Diseases associated with ATF4 include leukoencephalopathy with vanishing white matter and T-cell leukemia.

SPECIFICATION SUMMARY

Antigen: Peptide sequence that includes phosphorylation sites of serine 245 (N-R-S(p)-L-P) derived from human ATF4 and conjugated to KLH.

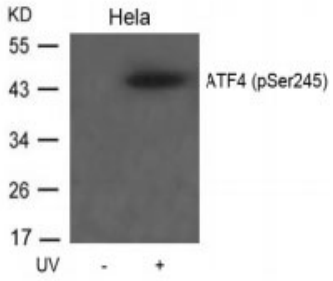
Accession no.: P18848, NP_001666.2

Host Species: Rabbit

Specificity: This antibody detects endogenous human ATF4 only when phosphorylated at serine 245.

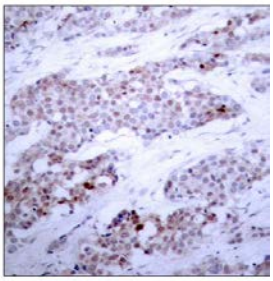
APPLICATION

Immunoblotting: use at dilution of 1:500-1:1,000. A band of ~45kDa is detected.



Detection of ATF4 (phospho-Ser245) in extracts of HeLa cells untreated or treated with UV.

Immunohistochemistry: use at dilution of 1:50-1:100.



Detection of ATF4 (phospho-Ser245) in paraffin-embedded human breast carcinoma tissue.

These are recommended working dilutions. Enduser should determine optimal dilutions for their applications.

DILUTION INSTRUCTIONS

Dilute in PBS or medium that is identical to that used in the assay system.

STORAGE AND STABILITY

This antibody is stable for at least one (1) year at -20°C. Can be stored at 4°C for short-term use.

For in vitro investigational use only. Not intended for therapeutic or diagnostic applications.