For Research Use Only

Phospho-ATF2 (Thr71)/ATF7 (Thr53) Polyclonal antibody

Catalog Number:28790-1-AP

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Basic Information

Catalog Number:
28790-1-AP

Size:
100ul , Concentration: 900 μg/ml by Nanodrop;

Source:
Rabbit

Isotype:
IgG

GenBank Accession Number:
BC026175

GeneID (NCBI):
1386

Full Name:
activating transcription factor 2

Calculated MW:
209 aa, 23 kDa

Observed MW:
60-70 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:2000-1:16000

Applications

Tested Applications:
WB, ELISA

Species Specificity:
Human, Mouse

Positive Controls:

WB : Anisomycin treated NIH/3T3 cells,

Background Information

ATF2, also named as CREB2 and CREBP1, contains one bZIP domain and one C2H2-type zinc finger. It belongs to the bZIP family. ATF2 binds to the cAMP-responsive element(CRE), an octameric palindrome. It forms a homodimer or a heterodimer with c-Jun and stimulates CRE-dependent transcription. ATF2 binds DNA as a dimer and can form a homodimer in the absence of DNA. It binds through its N-terminal region to UTF1 which acts as a coactivator of ATF2 transcriptional activity. Stress and growth factors activate ATF2 and ATF7 mainly via sequential phosphorylation of two conserved threonine residues in their activation domain. Distinct protein kinases, among which mitogen-activated protein kinases (MAPK), phosphorylate ATF2 on Thr71 and ATF7 on Thr53, resulting in transcriptional activation. The antibody recognizes -ATF2 phosphorylation sites Thr71 and ATF7 phosphorylation sites Thr53.

Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

***** 20ul sizes contain 0.1% BSA**

For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
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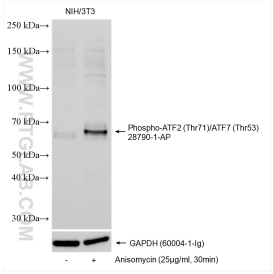
Selected Validation Data



Non-treated NIH/3T3 cells and Anisomycin treated NIH/3T3 cells were subjected to SDS PAGE followed by western blot with 28790-1-AP (Phospho-ATF2 (Thr71)/ATF7 (Thr53) antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours. The membrane was stripped and re-blotted with GAPDH antibody as loading control.