

## ATF2(Phospho-Thr69 or 51) Antibody

Catalog No: #11030

Package Size: #11030-1 50ul #11030-2 100ul

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## Description

Product Name	ATF2(Phospho-Thr69 or 51) 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 chromatography using non-phosphopeptide.
Applications	WB IHC IF
Species Reactivity	Hu Ms Rt
Specificity	The antibody detects endogenous level of ATF-2 only when phosphorylated at threonine 69 or 51.
Immunogen Type	Peptide-KLH
Immunogen Description	Peptide sequence around phosphorylation site of threonine 69 or 51 (D-Q-T(p)-P-T) derived from Human ATF2.
Target Name	ATF2
Modification	Phospho
Other Names	CREB2; CREBP1;
Accession No.	Swiss-Prot: P15336NCBI Protein: NP_001871.2
Uniprot	P15336
GeneID	1386;
Concentration	1.0mg/ml
Formulation	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg <sup>2+</sup> and Ca <sup>2+</sup> ), 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

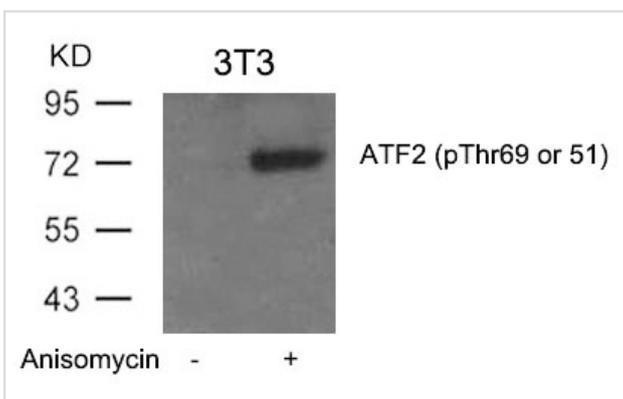
Predicted MW: 65-75 kd

Western blotting: 1:500

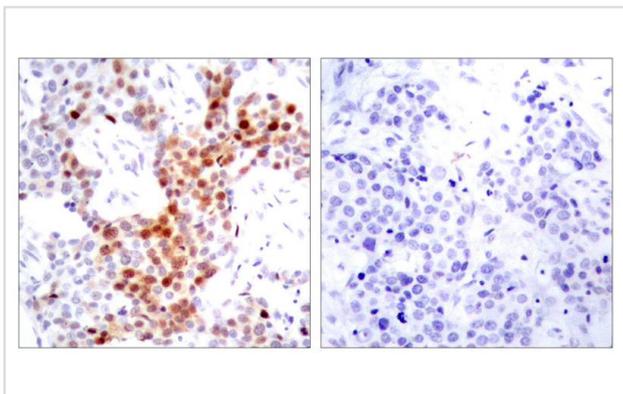
Immunohistochemistry: 1:50~1:100

Immunofluorescence: 1:100~1:200

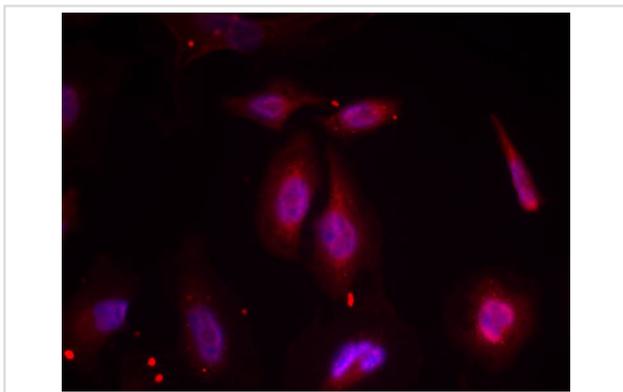
## Images



Western blot analysis of extracts from 3T3 cells untreated or treated with Anisomycin using ATF2(Phospho-Thr69 or 51) Antibody #11030.



Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using ATF2(Phospho-Thr69 or 51) Antibody #11030(left) or the same antibody preincubated with blocking peptide(right).



Immunofluorescence staining of methanol-fixed HeLa cells using ATF2(Phospho-Thr69 or 51) Antibody #11030.

## Background

Transcriptional activator, probably constitutive, which binds to the cAMP-responsive element (CRE) (consensus: 5'-GTGACGT[AC][AG]-3'), a sequence present in many viral and cellular promoters. Interaction with JUN redirects JUN to bind to CREs preferentially over the 12-O-tetradecanoylphorbol-13-acetate response elements (TREs) as part of an ATF2-c-Jun complex.

Sevilla A, et al. (2004) *J Biol Chem.* 279(26):27458-27465.

Alsayed Y, et al. (2001) *J Biol Chem.* 276(6): 4012-4019.

Abdel-Hafiz H A, et al. (1992) *Mol Endocrinol.* 6: 2079-2089.

Gupta S, et al. (1995) *Science.* 267: 389-393.

Note: This product is for in vitro research use only