

ARG52232 anti-ATF2 phospho (Thr52) antibody

Package: 50 µl
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes ATF2 phospho (Thr52)
Tested Reactivity	Hu
Tested Application	WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	ATF2
Species	Human
Immunogen	Synthetic phospho-peptide corresponding to amino acid residues surrounding Thr52 conjugated to KLH
Conjugation	Un-conjugated
Alternate Names	EC 2.3.1.48; Histone acetyltransferase ATF2; Activating transcription factor 2; cAMP-dependent transcription factor ATF-2; Cyclic AMP-dependent transcription factor ATF-2; CREB2; HB16; CREB-2; Cyclic AMP-responsive element-binding protein 2; cAMP-responsive element-binding protein 2; CRE-BP1; cAMP response element-binding protein CRE-BP1; TREB7

Application Instructions

Application table	Application	Dilution
	WB	1:250
Application Note	<p>Specific for the ~72k ATF2 protein phosphorylated at Thr52. Immunolabeling of the ATF2 band is reduced by treatment of the cells with the PKC catalytic inhibitor Gö6850.</p> <p>* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.</p>	
Positive Control	Human UACC903 melanoma cells	

Properties

Form	Liquid
Purification	Affinity Purified
Buffer	10 mM HEPES (pH 7.5), 150 mM NaCl, 0.1 mg/ml BSA and 50% Glycerol
Stabilizer	0.1 mg/ml BSA, 50% Glycerol
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Database links	GeneID: 1386 Human Swiss-port # P15336 Human
Gene Symbol	ATF2
Gene Full Name	activating transcription factor 2
Background	The transcription factor ATF2 is a member of the ATF/CREB family of leucine zipper proteins. In response to stress stimuli, it activates a variety of gene targets that are involved in oncogenesis, and has been correlated with maintenance of a cancer cell phenotype (Vlahopoulos et al., 2008). Inhibiting ATF2 impedes melanoma development and elicits tumor suppressor function (Bhoumik et al., 2008). To act as a tumor suppressor, ATF2 must localize at the mitochondria, and phosphorylation at Thr52 by PKC ϵ regulates this translocation (Lau et al., 2012).
Research Area	Gene Regulation antibody; Immune System antibody
Calculated Mw	55 kDa
PTM	Phosphorylation of Thr-69 by MAPK14 and MAPK11, and at Thr-71 by MAPK1/ERK2, MAPK3/ERK1, MAPK11, MAPK12 and MAPK14 in response to external stimulus like insulin causes increased transcriptional activity. Phosphorylated by PLK3 following hyperosmotic stress. Also phosphorylated and activated by JNK and CaMK4. ATM-mediated phosphorylation at Ser-490 and Ser-498 stimulates its function in DNA damage response. Phosphorylation at Ser-62, Thr-73 and Ser-121 activates its transcriptional activity. Phosphorylation at Thr-69 or Thr-71 enhances its histone acetyltransferase (HAT) activity.