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Datasheet for 600-401-W94

ATF2 Phospho T52 Antibody

Overview

Description:	Anti-ATF2 pT52 (RABBIT) Antibody - 600-401-W94
Item No.:	600-401-W94
Size:	100 µL
Applications:	WB
Reactivity:	Human
Host Species:	Rabbit

Product Details

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. Inhibiting ATF2 impedes melanoma development and elicits tumor suppressor function. To act as a tumor suppressor, ATF2 must localize at the mitochondria, and phosphorylation at Thr52 by PKCε regulates this translocation. ATF2 pT52 Antibody is ideal for researchers interested in cancer research.
Synonyms:	Cyclic AMP-dependent transcription factor ATF-2, cAMP-dependent transcription factor ATF-2, Activating transcription factor 2, Cyclic AMP-responsive element-binding protein 2, CREB-2, cAMP-responsive element-binding protein 2, HB16, Histone acetyltransferase ATF2, cAMP response element-binding protein CRE-BP1
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	ATF2
Reactivity:	Human
PTM Specificity:	Phosphorylation
Immunogen Type:	Conjugated Peptide

Immunogen:	Anti-Phospho-Thr52 ATF2 Antibody was produced in rabbits by repeated immunizations with a synthetic phospho-peptide corresponding to amino acid residues surrounding phosphorylated Thr52 of human ATF2 conjugated to KLH.
Purity/Specificity:	Anti-ATF2 pT52 Antibody is directed against ATF2 protein phosphorylated at T52. The antibody was prepared from monospecific antiserum by immunoaffinity chromatography using phospho peptide coupled to agarose beads followed by solid phase adsorption(s) against non-phospho peptide and non-specific peptide to remove any unwanted reactivities. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-Rabbit Serum. This antibody is specific for phosphorylated ATF2. Minimal reactivity occurs against non-phosphorylated ATF2. Reactivity against ATF2 occurs from human sources. Cross reactivity is unknown from other species.
Relevant Links:	• UniProtKB - P15336 • GeneID - 1386 • NCBI - NP_001243019.1

Application Details

Tested Applications:	WB
Application Note:	Anti-Phospho-Thr52 ATF2 Antibody is tested for WB. Expect a band at approximately ~74 kDa on specific lysates or tissues. Specific conditions for reactivity should be optimized by the end user.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:2,500
WB:	1:250

Formulation

Physical State:	Liquid (sterile filtered)
Buffer:	0.01 M HEPES, 0.15 M Sodium Chloride, pH 7.5
Preservative:	None
Stabilizer:	0.1 mg/ml Bovine Serum Albumin (BSA) - IgG and Protease free, 50% (v/v) Glycerol

Shipping & Handling

Shipping Condition:	Wet Ice

Storage Condition:	Store vial at -20° C prior to opening in undiluted aliquots. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. Dilute only prior to immediate use.
Expiration:	Expiration date is one (1) year from date of receipt.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.