

Phospho-ATF2 (Thr71) (G3) rabbit mAb

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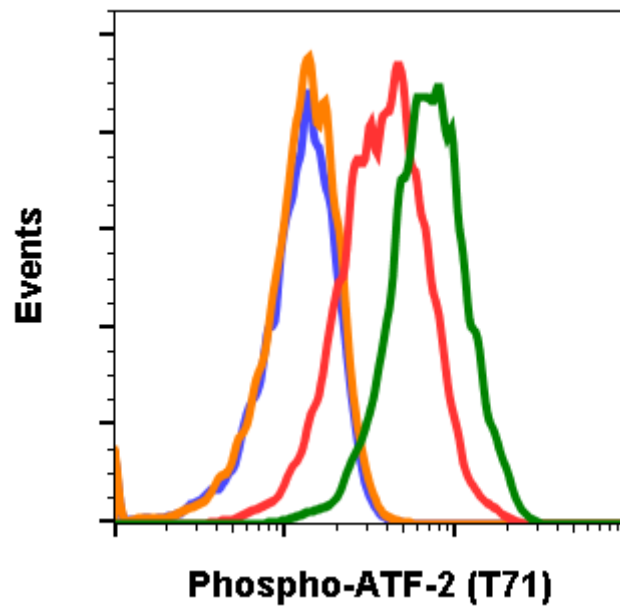
Catalog: #2056

Store at: -20°C

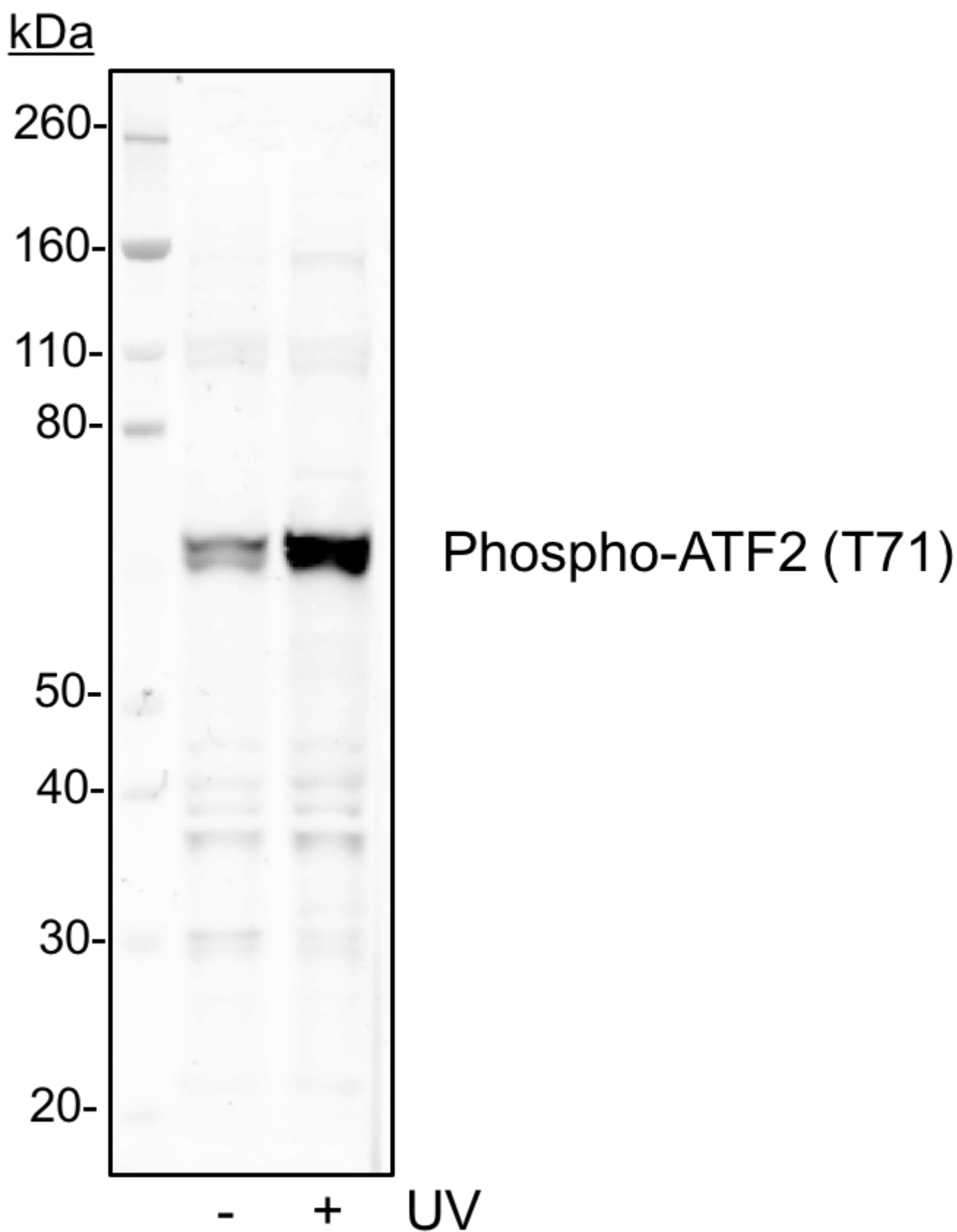
For Research Use Only. Not For Use In Diagnostic Procedures.

Applications	Detection	Clonality	Isotype
Flow Cytometry, WB	Anti-Rabbit IgG	Monoclonal	Rabbit IgGk

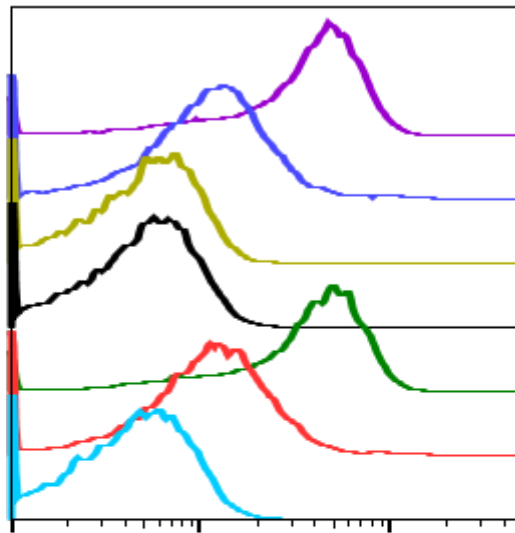
Format:	Unconjugated
Cross Reactivity:	Predicted to work with mouse, rat and other homologues.
Formulation:	1X PBS, 0.02% NaN ₃ , 50% Glycerol, 0.1% BSA
Preparation:	Protein A+G
Reactivity:	Human, Mouse
Recommended Usage:	1µg/mL – 0.001µg/mL. It is recommended that the reagent be titrated for optimal performance for each application. See product image legends for additional information.
Immunogen:	A synthetic phospho-peptide corresponding to residues surrounding Thr71 of human phospho ATF2
Description:	<p>Activating transcription factor 2 (ATF2), known as cyclic AMP (cAMP) response element (CRE) binding protein 2 (CREB2) and CRE-BP1 is a member of the activating protein-1 (AP1) transcription factor family. Through homo-dimerization or hetero-dimerization with other AP1 family members, such as the CREB, Fos, Maf, or Jun family transcription factor, it regulates the expression of many genes. ATF2 is an important mediator of mammalian cell responses to various stimuli, including stress. As a transcription factor, ATF2 acts as transducing extracellular signals to the nucleus to facilitate transcriptional responses to stimuli. ATF2 is stimulated by growth factors, ultraviolet (UV) radiation, and cytokines. Stress-activated protein kinases (SAPKs)(e.g. p38 MAP Kinase) induce transcriptional activation of ATF2. ATF2 is phosphorylated at amino acids threonine-69 and threonine-71 (T69, T71). Phosphorylation at these threonine residues is essential for maximal transcriptional activity downstream of insulin/epidermal growth factor stimulation and is dependent on cooperation between c-Jun N-terminal kinase (JNK) and signaling cascades downstream of Ras. Upon T69/T71 phosphorylation, ATF2 interacts with other AP1 proteins and translocate to the nucleus to regulate the expression of hundreds of genes.</p>
References:	<p>Shaulian E, and Karin M., (2002) Nat Cell Biol. 4:131–136. Shimizu M, et al., (1998) Exp Cell Res. 239:93–103. Lau E, and Ronai ZA. (2012) J Cell Sci. 125:2815–2824. Bailey J, and Europe-Finner GN. (2005), J Mol Endocrinol. 34:19–35. Rangaud J, et al., (1995) J Biol Chem. 270:7420–7426. Ouwens DM, et al., (2002) EMBO J. 21:3782–3793. Livingstone C, et al., (1995) EMBO J. 1995,14:1785–97. Yamasaki T, et al., (2009). J Biol Chem 284:8567–8581. Lau E, et al., (2012) Cell 148:543–555. Bhoulamidi A, et al., (2005) Mol Cell 18:577–587.</p>



Flow cytometric analysis of NIH3T3 cells secondary antibody only negative control (blue) or 0.1 $\mu\text{g/mL}$ of isotype control Cat. #2141 (orange) or untreated (red) or treated with UV and PMA (green) using Phospho-ATF-2 (Thr71) antibody ATF2T71-G3 at 0.1 $\mu\text{g/mL}$. Cat #2056.

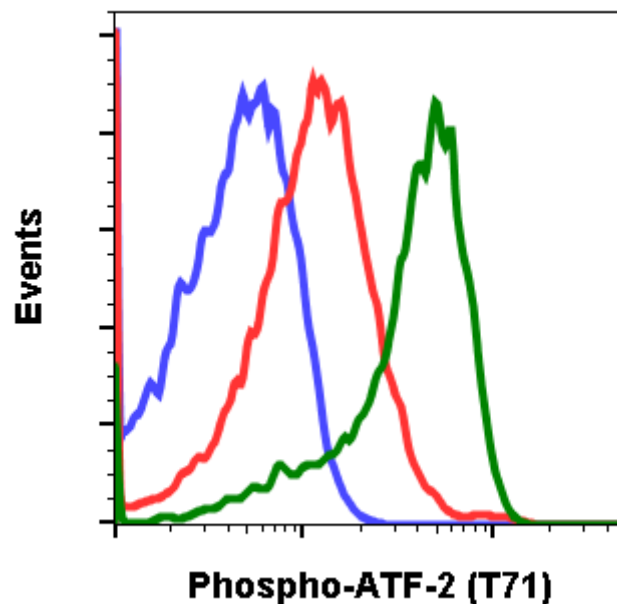


Western blot analysis of 293T cell extract untreated or treated with UV using 0.1 $\mu\text{g/mL}$ Phospho-ATF-2 (Thr71) antibody ATF2T71-G3. Cat. #2056.



	SampleID	Median : BL1-A
	Aniso G3 N	4025
	Ctrl G3 N	1080
	Aniso G3 P	440
	Ctrl G3 P	401
	Aniso G3	4025
	Ctrl G3	1098
	Ctrl 2' only	319

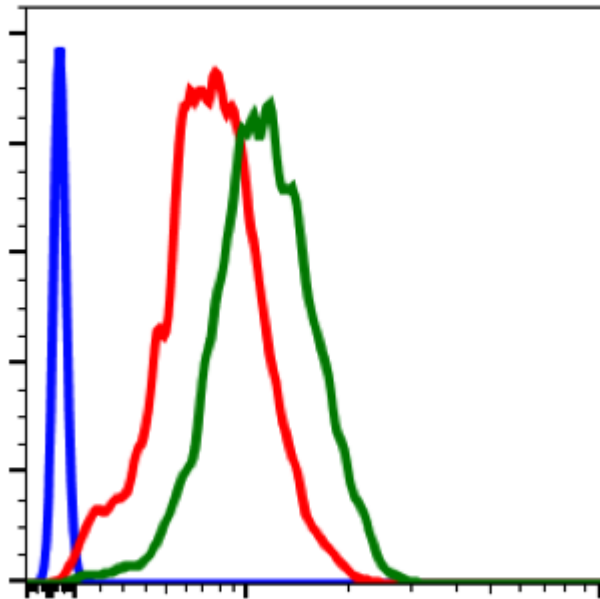
Peptide blocking flow cytometric analysis of Jurkat cells secondary antibody only negative control (light blue) or untreated (red) or anisomycin-treated (green) or untreated and blocked with phospho-peptide (black) or anisomycin and blocked with phospho peptide (gold) or untreated and blocked with non-phospho peptide (dark blue) or anisomycin and blocked with non-phospho peptide (purple) Phospho-ATF-2 (Thr71) antibody ATF2T71-G3 at 0.1µg/mL. Cat. #2056.



Flow cytometric analysis of Jurkat cells secondary antibody only negative control (blue) or untreated (red) or treated with anisomycin (green) using Phospho-ATF-2 (Thr71) antibody ATF2T71-G3 at 0.1µg/mL. Cat #2056.

Abwiz Cat. #2056

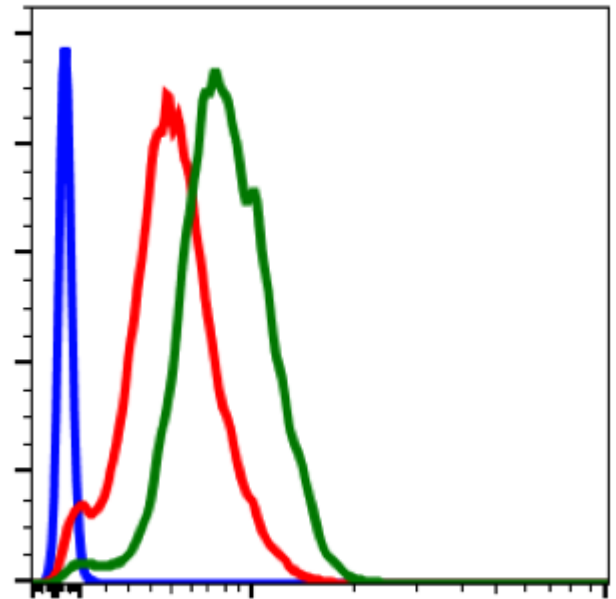
0.07 $\mu\text{g/mL}$



Phospho-ATF-2 (T71)

Company C

0.07 $\mu\text{g/mL}$



Phospho-ATF-2 (T71)

Flow cytometric analysis of Jurkat cells secondary antibody only negative control (blue) or untreated (red) or treated with anisomycin (green) using Phospho-ATF-2 (T71) antibody ATF2T71-G3 (Abwiz Cat. #2056) or Company C antibody at 0.07 $\mu\text{g/mL}$ (manufacturer's recommended concentration).