

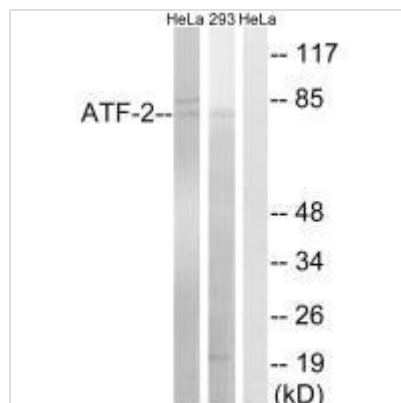


ATF2 (Ab-472) Antibody

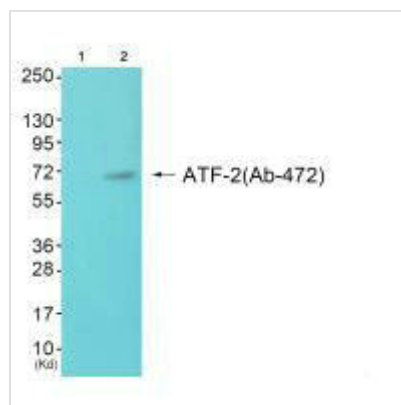
Product Code	CSB-PA557506
Storage	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
Uniprot No.	P15336
Immunogen	Synthesized non-phosphopeptide derived from Human ATF-2 around the phosphorylation site of serine 472 (A-L-S(p)-Q-I).
Raised In	Rabbit
Species Reactivity	Human, Mouse
Specificity	The antibody detects endogenous levels of total ATF-2 protein.
Tested Applications	ELISA, WB; WB: 1:500-1:3000
Relevance	Transcriptional activator which regulates the transcription of various genes, including those involved in anti-apoptosis, cell growth, and DNA damage response. Dependent on its binding partner, binds to CRE (cAMP response element) consensus sequences (5'-TGACGTCA-3') or to AP-1 (activator protein 1) consensus sequences (5'-TGACTCA-3'). In the nucleus, contributes to global transcription and the DNA damage response, in addition to specific transcriptional activities that are related to cell development, proliferation and death. In the cytoplasm, interacts with and perturbs HK1- and VDAC1-containing complexes at the mitochondrial outer membrane, thereby impairing mitochondrial membrane potential, inducing mitochondrial leakage and promoting cell death. The phosphorylated form (mediated by ATM) plays a role in the DNA damage response and is involved in the ionizing radiation (IR)-induced S phase checkpoint control and in the recruitment of the MRN complex into the IR-induced foci (IRIF). Exhibits histone acetyltransferase (HAT) activity which specifically acetylates histones H2B and H4 in vitro. In concert with CUL3 and RBX1, promotes the degradation of KAT5 thereby attenuating its ability to acetylate and activate ATM. Can elicit oncogenic or tumor suppressor activities depending on the tissue or cell type. Maekawa T., EMBO J. 8:2023-2028(1989). Yang L., J. Immunol. 158:2522-2525(1997). Hillier L.W., Nature 434:724-731(2005).
Form	Rabbit IgG in phosphate buffered saline (without Mg ²⁺ and Ca ²⁺), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purification Method	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Clonality	Polyclonal
Alias	Activating 2; ATF2; cAMP response element binding protein CRE- BP1; CREB2; CREBP1
Product Type	Polyclonal Antibody
Species	Homo sapiens (Human)


Target Names

ATF2

Image


Western blot analysis of extracts from HeLa cells and 293 cells, using ATF-2 (Ab-472) antibody.



Western blot analysis of extracts from JK cells (Lane 2), using ATF-2 (Ab-472) antibody. The lane on the left is treated with synthesized peptide