

## Basic Information

<b>Product Name</b>	Anti-ATF2 Antibody (Clone#IA-1)	
<b>Gene Name</b>	ATF2	
<b>Source</b>	Rabbit	
<b>Clonality</b>	Monoclonal	
<b>Isotype</b>	IgG	
<b>Species Reactivity</b>	human	
<b>Tested Application</b>	WB, IHC, ICC/IF, IP	
<b>Contents</b>	500 ug/ml; Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide, 0.4-0.5 mg/ml BSA and 50% glycerol.	
<b>Immunogen</b>	A synthesized peptide derived from human ATF2	
<b>Concentration</b>	500 ug/ml	
<b>Purification</b>	Affinity-chromatography	
<b>Observed MW</b>	70 kDa	
<b>Dilution Ratios</b>	Western blot (WB):	1:500-2000
	Immunohistochemistry (IHC):	1:50-200
	Immunocytochemistry/Immunofluorescence (ICC/IF):	1:50-200
	ImmunoPrecipitation (IP):	1:30

## Storage

12 months from date of receipt, -20°C as supplied. 6 months 2 to 8°C after reconstitution. Avoid repeated freezing and thawing.

## Background Information

ATF2, also known as Activating transcription factor 2, is a protein that in humans is encoded by the ATF2 gene. It is mapped to 2q31.1. This gene encodes a transcription factor that is a member of the leucine zipper family of DNA-binding proteins. This protein binds to the cAMP-responsive element (CRE), an octameric palindrome. The protein forms a homodimer or heterodimer with c-Jun and stimulates CRE-dependent transcription. The protein is also a histone acetyltransferase (HAT) that specifically acetylates histones H2B and H4 in vitro, thus, it may represent a class of sequence-specific factors that activate transcription by direct effects on chromatin components. Additional transcript variants have been identified but their biological validity has not been determined.

## Selected Validation Data

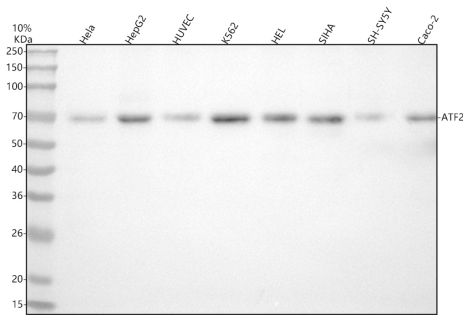


Figure 1. Western blot analysis of anti-ATF2 antibody (BM3943). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

Lane 1: human HeLa whole cell lysates,  
Lane 2: human HepG2 whole cell lysates,  
Lane 3: human HUVEC whole cell lysates,  
Lane 4: human K562 whole cell lysates,  
Lane 5: human HEL whole cell lysates,  
Lane 6: human SiHa whole cell lysates,  
Lane 7: human SH-SY5Y whole cell lysates,  
Lane 8: human Caco-2 whole cell lysates.

After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-ATF2 antigen affinity purified monoclonal antibody (BM3943) at a dilution of 1:1000 and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for ATF2 at approximately 70 kDa. The expected band size for ATF2 is at 55 kDa.

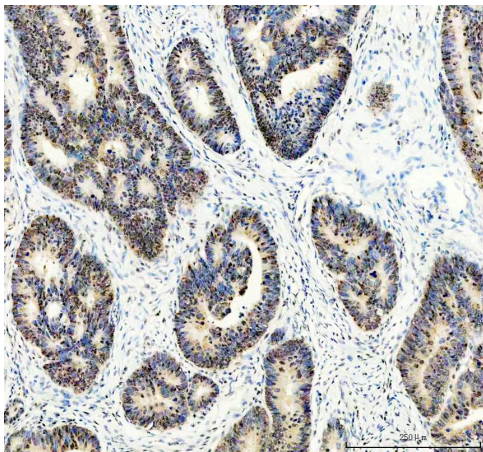
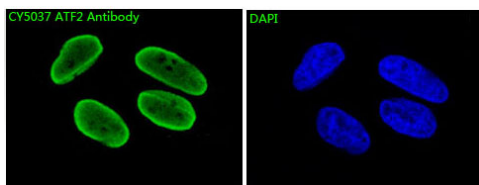


Figure 2. IHC analysis of ATF2 using anti-ATF2 antibody (BM3943).

ATF2 was detected in a paraffin-embedded section of human colon cancer tissue. The tissue section was incubated with rabbit anti-ATF2 Antibody (BM3943) at a dilution of 1:200 and developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB (Catalog # AR1022) as the chromogen.



Immunofluorescent analysis of HeLa cells, using ATF2 Antibody