

**Storage Buffer** 







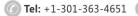
## ATF5 Antibody

ATT 5 ATTUDE	
Product Code	CSB-RA180846A0HU
Storage	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
Uniprot No.	Q9Y2D1
Immunogen	A synthesized peptide derived from human ATF5
Species Reactivity	Human, Rat
Tested Applications	ELISA, WB, IHC; Recommended dilution: WB:1:500-1:5000, IHC:1:50-1:200
Relevance	Transcription factor that either stimulates or represses gene transcription through binding of different DNA regulatory elements such as cAMP response element (CRE) (consensus: 5'-GTGACGT[AG](AG]-3'), ATF5-specific response element (ARE) (consensus: 5'-G[CT]TCT[CT]CTT[AT]-3') but also the amino acid response element (AARE), present in many viral and cellular promoters. Critically involved, often in a cell type-dependent manner, in cell survival, proliferation, and differentiation (PubMed:10373550, PubMed:15358120, PubMed:21212266, PubMed:20654631). Its transcriptional activity is enhanced by CCND3 and slightly inhibited by CDK4 (PubMed:15358120). Important regulator of the cerebral cortex formation, functions in cerebral cortical neuroprogenitor cells to maintain proliferation and to block differentiation into neurons. Must be down-regulated in order for such cells to exit the cycle and differentiate (By similarity). Participates in the pathways by which SHH promotes cerebellar granule neuron progenitor cells proliferation (By similarity). Critical for survival of mature olfactory sensory neurons (OSN), directs expression of OSN-specific genes (By similarity). May be involved in osteogenic differentiation (PubMed:22442021). Promotes cell proliferation and survival by inducing the expression of EGR1 sinergistically with ELK1. Once acetylated by EP300, binds to ARE sequences on target genes promoters, such as BCL2 and EGR1 (PubMed:21791614). Plays an anti-apoptotic role through the transcriptional regulation of BCL2, this function seems to be cell type-dependent (By similarity). Cooperates with NR113/CAR in the transcriptional activation of CYP2B6 in liver (PubMed:18701499). May act as a negative regulator of IL1B transduction pathway in liver (PubMed:24379400). Upon IL1B stimulus, cooperates with NLK to activate the transactivation activity of C/EBP subfamily members (PubMed:25512613). Besides its function of transcription factor, acts as a cofactor of CEBPB to activate CEBPA and promote adipocyte differentiatio
Form	Liquid
Conjugate	Non-conjugated

Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium

## **CUSABIO TECHNOLOGY LLC**





🕜 Tel: +1-301-363-4651 🔀 Email: cusabio@cusabio.com 🎅 Website: www.cusabio.com 🌘





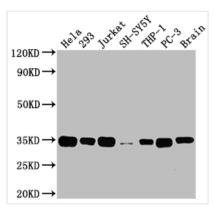
azide and	50%	glycerol.
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<b>Purification Method</b>	Affinity-chromatography
Isotype	Rabbit IgG
Clonality	Monoclonal
Product Type	Recombinant Antibody
Immunogen Species	Homo sapiens (Human)
Research Area	Epigenetics and Nuclear Signaling
Gene Names	ATF5

**Gene Names** Accession NO.

9D8

**Image** 

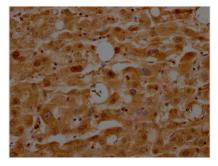


## Western Blot

Positive WB detected in: Hela whole cell lysate, 293 whole cell lysate, Jurkat whole cell lysate, SH-SY5Y whole cell lysate, THP-1 whole cell lysate, PC-3 whole cell lysate, Rat brain tissue All lanes: ATF5 antibody at 1:2000 Secondary

Goat polyclonal to rabbit IgG at 1/50000 dilution

Predicted band size: 31 kDa Observed band size: 35 kDa



IHC image of CSB-RA180846A0HU diluted at 1:100 and staining in paraffin-embedded human liver tissue performed on a Leica BondTM system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a Goat anti-rabbit IgG polymer labeled by HRP and visualized using 0.05% DAB.

## Description

ATF5 is a cellular prosurvival transcription factor within the basic leucine zipper (bZip) family that participates in cellular differentiation and facilitates cellular adaptation to stress. ATF5 also regulates cell proliferation and survival. Studies of ATF5-deficient mice showed that ATF5 is important for neural development and plays a prominent role in regulating the growth and differentiation of neural progenitors. Besides, ATF5 is implicated in the tumorigenesis of several malignancies, including ovarian cancer, lung cancer, and renal cancer.

Compared with the polyclonal and monoclonal antibodies of ATF5, this ATF5 recombinant antibody has the features of increased reproducibility and control, animal-free technology, high degree of monovalency, high batch-to-batch consistency, easier isotype conversion, etc. And it has been validated in ELISA, WB, IHC.