Rabbit ATF7 Polyclonal Antibody | anti-ATF7 antibody

ATF7 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA323815	**Rabbit**	**Human, Mouse, Rat**	**ELISA, Immunocytochemistry, Immunofluorescence, Western Blot**

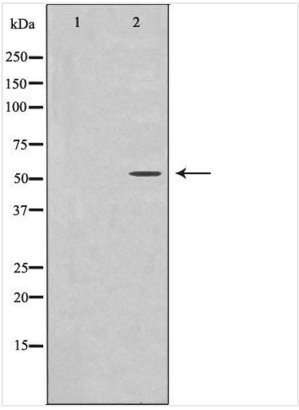
PRODUCT SYNONYMS

ATF7; Polyclonal Antibody; ATF7 Antibody; 1110012F10Rik; 9430065F09Rik; Activating transcription factor 7; AI549878; Atf7 protein; ATF7_HUMAN; ATFA; C130020M04Rik; cAMP-dependent transcription factor ATF-7; Cyclic AMP-dependent transcription factor ATF 7; Cyclic AMP-dependent transcription factor ATF-7; MGC31554; MGC57182; Transcription factor ATF A; Transcription factor ATF-A; anti-ATF7 antibody

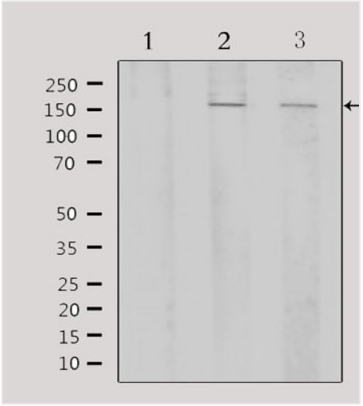
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	ATF7 antibody detects endogenous levels of total ATF7
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	462
Applicable Applications for anti-ATF7 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), WB (Western Blot)
Immunogen	A synthesized peptide
Subcellular Location	Nucleus. Nucleus > Nucleoplasm. Mainly nucleoplasmic. Restricted distribution to the perinuculear region. The sumoylated form locates to the nuclear periphery.
Tissue Specificity	Expressed in heart, lung and skeletal muscle. Isoform 4 is expressed in various tissues including heart, brain, placenta, lung and skeletal muscle. Highest levels in skeletal muscle. Lowest in lung and placenta.
Predicted Cross Reactivity	**Pig, Bovine, Sheep, Rabbit, Dog**
Similarity	Pig (100%), Bovine (100%), Sheep (100%), Rabbit (100%), Dog (91%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

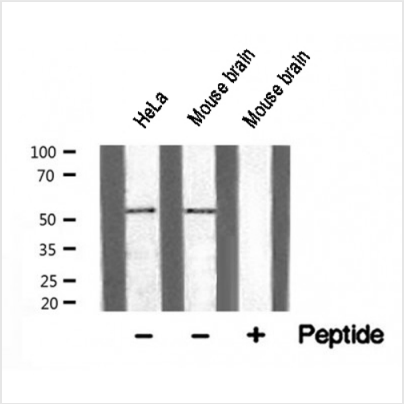
IMAGES



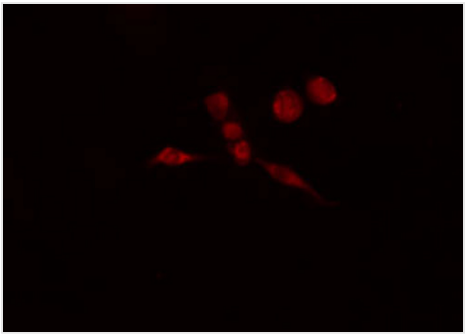
WB (Western Blot)
Western blot analysis of extracts from HeLa cells, using ATF7 antibody.The lane on the left is treated with the antigen-specific peptide.



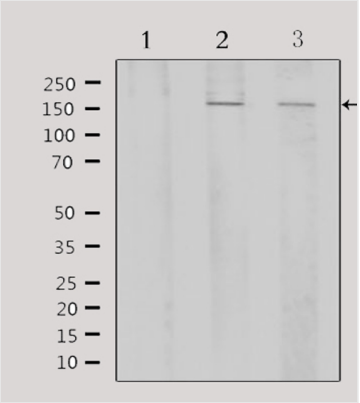
WB (Western Blot)
Western blot analysis of extracts from 293, using ATF7 Antibody.



WB (Western Blot)
Western blot analysis of extracts of various tissue sample, using ATF7 Antibody.



IF (Immunofluorescence)
AAA323815 staining HeLa cells by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) antibody, diluted at 1/600, was used as secondary antibody.



WB (Western Blot)
Western blot analysis of extracts from various samples, using ATF7 Antibody. Lane 1: 293 treated with blocking peptide; Lane 2: 293; Lane 3: mouse brain;

ADDITIONAL INFORMATION

Related Product Information for anti-ATF7 antibody	Function: Plays important functions in early cell signaling. Binds the cAMP response element (CRE) (consensus: 5'-GTGACGT[AG][AG]-3'), a sequence present in many viral and cellular promoters. Activator of the NF-ELAM1/delta-A site of the E-selectin promoter. Has no intrinsic transcriptional activity, but activates transcription on formation of JUN or FOS heterodimers. Also can bind TRE promoter sequences when heterodimerized with members of the JUN family. Subunit Structure: Homodimer; binds DNA as homodimer. Heterodimer; heterodimerizes with other members of ATF family and with JUN family members. Interacts with JNK2; the interaction does not phosphorylate ATF7 but acts as a docking site for other ATF-associated partners such as JUN family members. Interacts (via its transactivation domain) with TAF12 (isoforms TAFII15 and TAFII20); the interaction potentiates the transactivation activity (isoform TAFII20 only) and is inhibited by ATF7 sumoylation. Interacts with TAF4; the interaction inhibits the TAF12-dependent transactivation. Interacts with adenovirus 2 E1A; the interaction enhances the ATF7-mediated viral transactivation activity which requires the zinc-binding domains of both E1A and ATF7. Interacts with MAPK9; the interaction does not phosphorylate ATF7 but acts as a docking site for ATF7-associated partners such as JUN. Post-translational Modifications: On EGF stimulation, phosphorylated first on Thr-53 allowing subsequent phosphorylation on Thr-51. This latter phosphorylation prevents sumoylation, increases binding to TAF12 and enhances transcriptional activity. Sumoylation delays nuclear localization and inhibits transactivation activity through preventing binding to TAF12. RANBP2 appears to be the specific E3 ligase. Similarity: Belongs to the bZIP family.

NCBI AND UNIPROT INFORMATION

NCBI GI #	194239643
NCBI GeneID	11016
NCBI Accession #	NP_001123532.1
NCBI GenBank Nucleotide #	NM_001130060.1
UniProt Accession #	P17544; Q13814; Q8IVR8; Q9UD83; A5D6Y4; B2RMP1; B4DQL4
Molecular Weight	Observed: 52 kD Predicted: 53 kDa
NCBI Official Full Name	cyclic AMP-dependent transcription factor ATF-7 isoform 3
NCBI Official Synonym Full Names	activating transcription factor 7
NCBI Official Symbol	ATF7
NCBI Official Synonym Symbols	ATFA
NCBI Protein Information	cyclic AMP-dependent transcription factor ATF-7
UniProt Protein Name	Cyclic AMP-dependent transcription factor ATF-7
UniProt Gene Name	**ATF7**
UniProt Synonym Gene Names	ATFA; cAMP-dependent transcription factor ATF-7

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: https://www.aaabiotech.com/polyclonal/atf7-antibody-immunocytochemistry-immunofluorescence-western-blot-elisa/323815