

ARG63137 anti-ATF7 antibody

Package: 100 µg
Store at: -20°C

Summary

Product Description	Goat Polyclonal antibody recognizes ATF7
Tested Reactivity	Hu
Predict Reactivity	Cow, Rat, Dog
Tested Application	IHC-P, WB
Specificity	This antibody is expected to recognise all three reported isoforms (NP_001123531.1, NP_006847.1 and NP_001123532.1).
Host	Goat
Clonality	Polyclonal
Isotype	IgG
Target Name	ATF7
Species	Human
Immunogen	C-HVIMTPQSQSAGR
Conjugation	Un-conjugated
Alternate Names	cAMP-dependent transcription factor ATF-7; Transcription factor ATF-A; ATFA; Activating transcription factor 7; Cyclic AMP-dependent transcription factor ATF-7

Application Instructions

Application table	Application	Dilution
	IHC-P	3 - 5 µg/ml
	WB	0.5 - 2 µg/ml

Application Note
IHC-P: Antigen Retrieval: Steam tissue section in Citrate buffer (pH 6.0).
WB: Recommend incubate at RT for 1h.
* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Properties

Form	Liquid
Purification	Purified from goat serum by antigen affinity chromatography.
Buffer	Tris saline (pH 7.3), 0.02% Sodium azide and 0.5% BSA.
Preservative	0.02% Sodium azide
Stabilizer	0.5% BSA
Concentration	0.5 mg/ml

Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

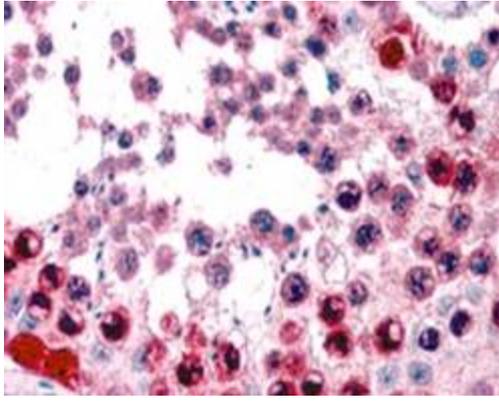
Database links	GeneID: 11016 Human Swiss-port # P17544 Human
Gene Symbol	ATF7
Gene Full Name	activating transcription factor 7
Function	Plays important functions in early cell signaling. Binds the cAMP response element (CRE) (consensus: 5'-GTGACGT[AG][AG]-3'), a sequence present in many viral and cellular 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. Isoform 4/ATF-A0 acts as a dominant repressor of the E-selectin/NF-ELAM1/delta-A promoter. Isoform 5/ATF-4 acts as a negative regulator, inhibiting both ATF2 and ATF7 transcriptional activities. It may exert these effects by sequestering in the cytoplasm the Thr-53 phosphorylating kinase, preventing activation. [UniProt]
Research Area	Gene Regulation antibody
Calculated Mw	53 kDa
PTM	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.

Images



ARG63137 anti-ATF7 antibody WB image

Western Blot: HeLa lysate (RIPA buffer, 35 µg total protein per lane) stained with ARG63137 anti-ATF7 antibody at 0.5 µg/ml dilution.



ARG63137 anti-ATF7 antibody IHC-P image

Immunohistochemistry: paraffin embedded Human Testis. (Steamed antigen retrieval with citrate buffer pH 6) stained with ARG63137 anti-ATF7 antibody at 3.8 µg/ml dilution followed by AP-staining.