

ATF6 beta Rabbit pAb

Catalog # AP97325

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q5SSW7
Other Accession	Q5SSW7
Reactivity	Mouse
Predicted	Rat, Pig, Human, Rabbit, Dog, Horse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	77 KDa
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human ATF6 beta
Epitope Specificity	301-400/703
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the bZIP family. ATF subfamily. Contains 1 bZIP domain.
SUBUNIT	Homodimer and heterodimer with ATF6-alpha. The dimer interacts with the nuclear transcription factor Y (NF-Y) trimer through direct binding to NF-Y subunit C (NF-YC).
Post-translational modifications	N-glycosylated. During unfolded protein response an approximative 60 kDa fragment containing the cytoplasmic transcription factor domain is released by proteolysis. The cleavage is probably performed sequentially by site-1 and site-2 proteases.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	ATF-6 is a member of the basic-leucine zipper family of transcription factors. Endoplasmic reticulum stress causes cleavage of transmembrane ATF-6 and translocation of active ATF-6 to the nucleus. Soluble ATF-6 can exist as either an ATF-6beta homodimer or an ATF-6Alpha/beta heterodimer. Binding of the ATF-6beta homodimer or ATF-6Alpha/beta heterodimer to the nuclear transcription factor Y C (NF-YC) induces ER chaperone transcription.

Additional Information

Gene ID	1388
Other Names	ATF6beta; CREB-RP; CREBL1; G13; Q5SSW7_HUMAN; ATF6B_HUMAN; ATF6B; cAMP-dependent transcription factor ATF-6 beta; Activating transcription factor 6 beta (ATF6-beta); Protein G13; cAMP response element-binding protein-related protein (Creb-rp); cAMP-responsive element-binding protein-like 1; ATF6B_MOUSE; Q4G097_RAT; Q6MG80_RAT; activating transcription factor 6 beta; cAMP responsive element binding protein-like 1; Cyclic AMP-dependent transcription factor ATF-6 beta

Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	ATF6 beta Rabbit pAb
Function	Transcriptional factor that acts in the unfolded protein response (UPR) pathway by activating UPR target genes induced during ER stress. Binds DNA on the 5'-CCAC[GA]-3' half of the ER stress response element (ERSE) (5'-CCAATN(9)CCAC[GA]-3') when NF-Y is bound to ERSE.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.