



Anti-ATF4 (aa 171-270) polyclonal antibody (DPAB-DC1997)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description	This gene encodes a transcription factor that was originally identified as a widely expressed mammalian DNA binding protein that could bind a tax-responsive enhancer element in the LTR of HTLV-1. The encoded protein was also isolated and characterized as the cAMP-response element binding protein 2 (CREB-2). The protein encoded by this gene belongs to a family of DNA-binding proteins that includes the AP-1 family of transcription factors, cAMP-response element binding proteins (CREBs) and CREB-like proteins. These transcription factors share a leucine zipper region that is involved in protein-protein interactions, located C-terminal to a stretch of basic amino acids that functions as a DNA binding domain. Two alternative transcripts encoding the same protein have been described. Two pseudogenes are located on the X chromosome at q28 in a region containing a large inverted duplication.
Immunogen	ATF4 (NP_001666.2, 171 a.a. ~ 270 a.a) partial recombinant protein with GST tag. The sequence is SSTPDHSFSLELGSEVDITEGDRKPDYTAYVAMIPQCIKEEDTPSDNDSGICMSPESYLG SPQHSPSTRGSPNRSPLSPGVLCGSARPKPYDPPGKEMVA
Source/Host	Mouse
Species Reactivity	Human
Conjugate	Unconjugated
Applications	WB (Recombinant protein), ELISA,
Size	50 µl
Buffer	50 % glycerol
Preservative	None

Storage

Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

GENE INFORMATION

Gene Name	ATF4 activating transcription factor 4 [Homo sapiens (human)]
Official Symbol	ATF4
Synonyms	ATF4; activating transcription factor 4; CREB2; TXREB; CREB-2; TAXREB67; cyclic AMP-dependent transcription factor ATF-4; DNA-binding protein TAXREB67; tax-responsive enhancer element B67; cAMP response element-binding protein 2; cAMP-dependent transcription factor ATF-4; cAMP-responsive element-binding protein 2; cyclic AMP-responsive element-binding protein 2; tax-responsive enhancer element-binding protein 67;
Entrez Gene ID	468
Protein Refseq	NP_001666
UniProt ID	P18848
Chromosome Location	22q13.1
Pathway	ATF4 activates genes; ATF6-alpha activates chaperones; Adrenergic signaling in cardiomyocytes; Alcoholism
Function	DNA binding; protein C-terminus binding; protein binding; sequence-specific DNA binding