

Basic Information

Product Name	Anti-ATF4 Antibody	
Gene Name	ATF4	
Source	Rabbit	
Isotype	IgG	
Species Reactivity	human, mouse, rat	
Tested Application	WB, IHC, ICC, IP, FCM	
Contents	500 ug/ml; Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.	
Immunogen	A synthesized peptide derived from human ATF4	
concentration	500 ug/ml	
Purification	Affinity-chromatography	
Observed MW	50KD	
Dilution Ratios	Western blot (WB):	1:400-800
	Immunohistochemistry in paraffin section (IHC):	1:20-100
	Immunocytochemistry/Immunofluorescence (ICC/IF):	1:20-100
	Immunoprecipitation:	1:20
	Flow cytometry (FCM):	1:20

Storage

12 months from date of receipt, -20°C as supplied. 6 months 2 to 8°C after reconstitution. Avoid repeated freezing and thawing.

Background Information

ATF4, Activating Transcription Factor 4, is also known as CREB2. ATF4 belongs to the large ATF/CREB family of transcription factors which bind DNA via their basic region and dimerize via their leucine zipper domain to form a variety of homo- and heterodimers to regulate gene transcription. It is identified that members of this family share significant sequence similarity within a leucine zipper DNA-binding motif and an adjacent basic region. The ATF4 gene is mapped to chromosome 22. Unlike CREB, which activates transcription from CRE-containing promoters, CREB2 functions as a specific repressor of CRE-dependent transcription. The transcriptional repressor activity resides within the C-terminal leucine zipper and basic domain region of the CREB2 protein.

Selected Validation Data

Western blot analysis of ATF4 expression in (1) HeLa cell lysate; (2) 3T3 cell lysate.

