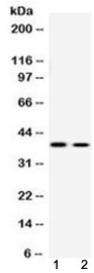
ATF4 Antibody (R32586)

Catalog No.	Formulation	Size
R32586	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2.5% BSA and 0.025% sodium azide
UniProt	P18848
Applications	Western blot: 0.5-1ug/ml
Limitations	This ATF4 antibody is available for research use only.



Western blot testing of human 1) U-2 OS and 2) SW620 cell lysate with ATF4 antibody at 0.5ug/ml. Predicted molecular weight ~39 kDa.

Description

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.

Application Notes

Optimal dilution of the ATF4 antibody should be determined by the researcher.

Immunogen

Amino acids 71-100 (SNNSKEDAFSGTDWMLEKMDLKEFDLDALL-human) were used as the immunogen for the ATF4 antibody.

Storage

After reconstitution, the ATF4 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

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