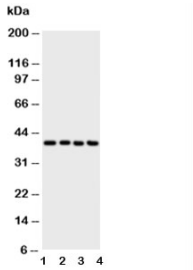
ATF4 Antibody (R30614)

Catalog No.	Formulation	Size
R30614	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
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/thimerosal
UniProt	P18848
Applications	Western Blot : 0.5-1ug/ml
Limitations	This ATF4 antibody is available for research use only.



Western blot testing of ATF4 antibody and Lane 1: A431; 2: Raji; 3: CEM; 4: HUT cell lysate. Predicted molecular weight ~39kDa.

Description

Activating Transcription Factor 4, also know as CREB2, 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. Members of this family share significant sequence similarity within a leucine zipper DNA-binding motif and an adjacent basic region. Unlike CREB, which activates transcription from CRE-containing promoters, CREB2/ATF4 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 ATF4 protein.

Application Notes

The stated application concentrations are suggested starting points. Titration of the ATF4 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

Amino acids 332-351 (QYLKDLIEEVRKARGKKRVP) were used as the immunogen for this ATF4 antibody (100% homologous in human, mouse and rat).

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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