

ATF4 Recombinant antibody

Cat:B36125S

Company: HaoKebio

Uniprot ID:P18848

Applications: IHC:1:50-1:500

Organism:Rabbit

IHC-Polymer:1:200-1:2000

Species reactivity:Human Mouse

IHC-TSA:1:250-1:2500

Molecular Weight Calculation: 39 kDa

WB:1:5000-1:50000

Observed Molecular Weight: 50 kDa

IP:1ug for 1mg of total protein lysate

CHIP-QPCR:1:10-1:100

Background:

ATF4 is a transcription factor, that accumulates predominantly in osteoblasts, where it regulates terminal osteoblast differentiation and bone formation. As a basic leucine-zipper (bZip) transcription factor, ATF4 can regulate amino acid metabolism, cellular redox state, and anti-stress responses.

It also regulates age-related and diet-induced obesity and glucose homeostasis in mammals, and has conserved metabolic functions in flies. Due to its location at chromosome 22q13, a region linked to schizophrenia, ATF4 is considered as a positional candidate gene for schizophrenia. Otherwise, since ATF4 is induced by tumour microenvironmental factors, and regulates processes relevant to cancer progression, it might serve as a potential therapeutic target in cancer. Endogenous ATF4 protein has a molecular mass of 50kd. ATF4 can bind DNA as a homodimer and as a heterodimer. ATF4 is ubiquitinated by SCF(BTRC) in response to mTORC1 signal, followed by proteasomal degradation and leading to down-regulate expression of SIRT4, so the molecular weight of ATF4 may be 70 kDa.

Synonyms:

5N3, cAMP-dependent transcription factor ATF-4, CREB2, Cyclic AMP-responsive element-binding protein 2, Tax-responsive enhancer element-binding protein 67

Immunogen:

Recombinant protein

Isotype:

IgG

Subcellular location:

Nucleus

Purity:

Affinity purification

Form:

Liquid

Storage Buffer:

PBS with 0.02% sodium azide, 100 µg/ml BSA and 50% glycerol.

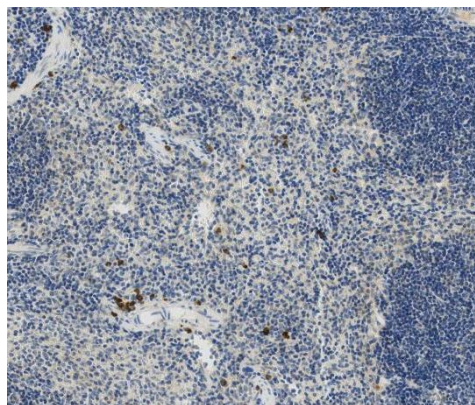
Storage:

Store at -20 °C for one year.

Experimental procedure:

Antigen retrieval: Citrate buffer (pH 9.0) , Medium high heat for 8 minutes, stop for 7 minutes, medium high heat for 8 minutes. Incubate antibody, 4°C overnight. Secondary antibody: Poly-HRP Goat Anti-Rabbit & Mouse Universal Secondary Antibody, RT, 1h.

Images:



Sample: Mouse spleen, 4% PFA 12-24h

Source of Reagents:

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发表[英文论文]请标注:ATF4(B36125S) were ki
ndly provided by Hangzhou Haoke Biotechnolog
y Co., Ltd.