

ATF4

Reactivity: Human Mouse Rat

Tested applications: WB IHC

Recommended Dilution: WB 1:500 - 1:2000 IHC 1:50 - 1:100

Calculated MW: 39kDa

Observed MW: Refer to Figures

Immunogen:

Recombinant protein of human ATF4

Storage Buffer:

Store at -20. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

Concentration:

kq

Synonym:

ATF4; CREB-2; CREB2; TAXREB67; TXREB ;

Catalog #: A0201

Antibody Type:

Polyclonal Antibody

Species: Rabbit

Gene ID: 468

Isotype: IgG

Swiss Prot: P18848

Purity: Affinity purification

For research use only.

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. This antibody is a rabbit polyclonal antibody raised against full length human ATF4 antigen.

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