

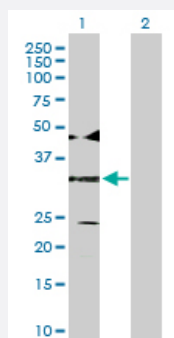
MaxPab®

# ATF4 purified MaxPab rabbit polyclonal antibody (D01P)

Catalog # H00000468-D01P

Size 100 ug

## Applications

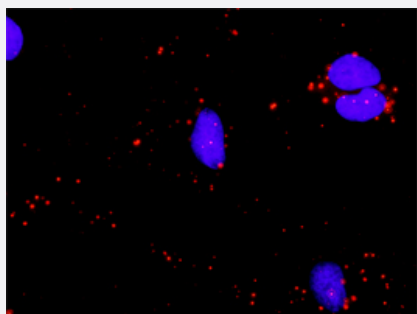


### Western Blot (Transfected lysate)

Western Blot analysis of ATF4 expression in transfected 293T cell line ([H00000468-T02](#)) by ATF4 MaxPab polyclonal antibody.

Lane 1: ATF4 transfected lysate(38.60 KDa).

Lane 2: Non-transfected lysate.



### In situ Proximity Ligation Assay (Cell)

Proximity Ligation Analysis of protein-protein interactions between ATF4 and CREBBP. HeLa cells were stained with anti-ATF4 rabbit purified polyclonal 1:1200 and anti-CREBBP mouse monoclonal antibody 1:50. Each red dot represents the detection of protein-protein interaction complex, and nuclei were counterstained with DAPI (blue).

## Specification

### Product Description

Rabbit polyclonal antibody raised against a full-length human ATF4 protein.

### Immunogen

ATF4 (NP\_001666.2, 1 a.a. ~ 351 a.a) full-length human protein.

### Sequence

MTEMSFLSSEVLVGDLMSPFDDQSGLGAEESLGLDDYLEVAKHFKPHGFSSDKAKAGSSEWLA  
VDGLVSPSNNKEDAFSGTDWMLEKMDLKEFDLDALLGIDDLETMPDDLTTLDLTCDLFAPLV  
QETNKQPPQTVNPIGHLPESLTKPDQVAPFTFLQPLPLSPGVLSSSTPDHSFSLELGSEVDITEGDR  
KPDYAYVAMIPQCIEEDTPSDNDSGICMSPESYLGSPPHSPSTRGSPNRSPLSPGVLCGSARP  
KPYDPPGEKMVAACKVKGEKLDKLLKMEQNKTAATRYRQKKRAEQEALTGECKELEKKNEALK  
ERADSLAKEIQYLKDLIEEVRKARGKKRVP

### Host

Rabbit

Reactivity	Human
Quality Control Testing	Antibody reactive against mammalian transfected lysate.
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

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[Protocol Download](#)

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## Gene Info — ATF4

Entrez GeneID	<a href="#">468</a>
GeneBank Accession#	<a href="#">NM_001675.2</a>
Protein Accession#	<a href="#">NP_001666.2</a>
Gene Name	ATF4
Gene Alias	CREB-2, CREB2, TAXREB67, TXREB
Gene Description	activating transcription factor 4 (tax-responsive enhancer element B67)
Omim ID	<a href="#">604064</a>
Gene Ontology	<a href="#">Hyperlink</a>

**Gene Summary**

This gene encodes a transcription factor that was originally identified as a widely expressed mammalian DNA binding protein that could bind a tax-responsive enhancer element in the LTR of HTLV-1. The encoded protein was also isolated and characterized as the cAMP-response element binding protein 2 (CREB-2). The protein encoded by this gene belongs to a family of DNA-binding proteins that includes the AP-1 family of transcription factors, cAMP-response element binding proteins (CREBs) and CREB-like proteins. These transcription factors share a leucine zipper region that is involved in protein-protein interactions, located C-terminal to a stretch of basic amino acids that functions as a DNA binding domain. Two alternative transcripts encoding the same protein have been described. Two pseudogenes are located on the X chromosome at q28 in a region containing a large inverted duplication. [provided by RefSeq]

**Other Designations**

activating transcription factor 4|cAMP response element-binding protein 2

**Pathway**

- [GnRH signaling pathway](#)
- [Long-term potentiation](#)
- [MAPK signaling pathway](#)
- [Neurotrophin signaling pathway](#)
- [Prostate cancer](#)

**Disease**

- [Bipolar Disorder](#)
- [Genetic Predisposition to Disease](#)
- [Mental Disorders](#)
- [Neuropsychological Tests](#)
- [Schizophrenia](#)