

### Recombinant Human BATF protein ab104928

画像数 1

#### 製品の詳細

製品名	Recombinant Human BATF protein
精製度	> 90 % SDS-PAGE. ab104928 was purified using conventional chromatography techniques.
発現系	Escherichia coli
アクセッション番号	<b><u>Q16520</u></b>
タンパク質長	Full length protein
Animal free	No
由来	Recombinant
生物種	Human
配列	<b>MGSSHHHHHH SSGLVPRGSH MPHSSDSSDS</b> <b>SFSRSPPPGK QDSSDDVRRV QRREKNRIAA</b> <b>QKSRQRQTQK ADTLHLESED LEKQNAALRK</b> <b>EIKQLTEELK YFTSVLNSHE PLCSVLAAS</b> <b>TSPPEVVYSA HAFHQPHVSS PRFQP</b>
予測される分子量	16 kDa including tags
領域	1 to 125
タグ	His tag N-Terminus

#### 特性

Our **Abpromise guarantee** covers the use of **ab104928** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

アプリケーション	SDS-PAGE
	Mass Spectrometry
質量分析	MALDI-TOF
製品の状態	Liquid

#### 前処理および保存

保存方法および安定性	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
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pH: 8.00

Constituents: 0.0308% DTT, 0.316% Tris HCl, 40% Glycerol (glycerin, glycerine), 1.16% Sodium chloride

## 関連情報

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### 機能

AP-1 family transcription factor that controls the differentiation of lineage-specific cells in the immune system: specifically mediates the differentiation of T-helper 17 cells (Th17), follicular T-helper cells (Tfh), CD8(+) dendritic cells and class-switch recombination (CSR) in B-cells. Acts via the formation of a heterodimer with JUNB that recognizes and binds DNA sequence 5'-TGA[CG]TCA-3'. The BATF-JUNB heterodimer also forms a complex with IRF4 (or IRF8) in immune cells, leading to recognition of AICE sequence (5'-TGAnTCA/GAAA-3'), an immune-specific regulatory element, followed by cooperative binding of BATF and IRF4 (or IRF8) and activation of genes. Controls differentiation of T-helper cells producing interleukin-17 (Th17 cells) by binding to Th17-associated gene promoters: regulates expression of the transcription factor RORC itself and RORC target genes such as IL17 (IL17A or IL17B). Also involved in differentiation of follicular T-helper cells (Tfh) by directing expression of BCL6 and MAF. In B-cells, involved in class-switch recombination (CSR) by controlling the expression of both AICDA and of germline transcripts of the intervening heavy-chain region and constant heavy-chain region (I(H)-C(H)). Following infection, can participate in CD8(+) dendritic cell differentiation via interaction with IRF4 and IRF8 to mediate cooperative gene activation. Regulates effector CD8(+) T-cell differentiation by regulating expression of SIRT1. Following DNA damage, part of a differentiation checkpoint that limits self-renewal of hematopoietic stem cells (HSCs): up-regulated by STAT3, leading to differentiation of HSCs, thereby restricting self-renewal of HSCs.

### 組織特異性

Expressed at highest levels in lung, and at lower levels in placenta, liver, kidney, spleen, and peripheral blood. Detected in SW480 colorectal cancer cell line and several hematopoietic tumor cell lines, including Raji Burkitt's lymphoma. Strongly expressed in mature B- and T-lymphocytes. Also expressed in moderate levels in lymph node and appendix and at low levels in thymus and bone marrow (PubMed:10777209).

### 配列類似性

Belongs to the bZIP family.

Contains 1 bZIP (basic-leucine zipper) domain.

### 翻訳後修飾

Phosphorylated on serine and threonine residues and at least one tyrosine residue.

Phosphorylation at Ser-43 inhibit DNA binding activity and transforms it as a negative regulator of AP-1 mediated transcription.

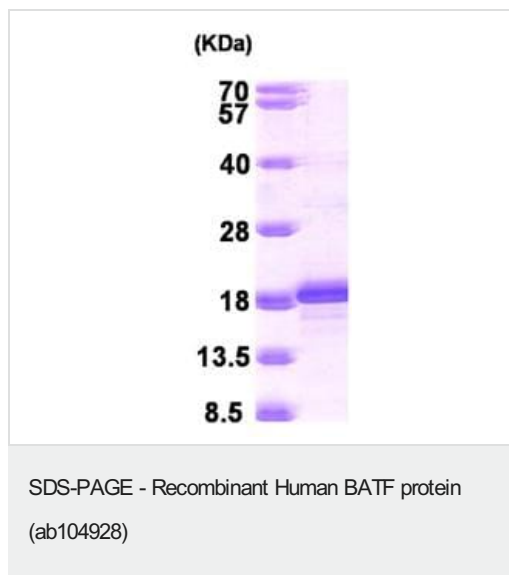
Phosphorylated.

### 細胞内局在

Nucleus. Cytoplasm. Present in the nucleus and cytoplasm, but shows increased nuclear translocation after activation of T-cells.

## 画像

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15% SDS-PAGE analysis of 3ug ab104928

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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