

### Anti-ATF2 (phospho T71) antibody [E268] ab32019

リコンビナント RabMAb<sup>®</sup>

#### 9 References [画像数 7](#)

#### 製品の概要

製品名	Anti-ATF2 (phospho T71) antibody [E268]
製品の詳細	Rabbit monoclonal [E268] to ATF2 (phospho T71)
由来種	Rabbit
アプリケーション	<b>適用あり:</b> WB, IP, ICC/IF, Dot blot <b>適用なし:</b> Flow Cyt or IHC
種交差性	<b>交差種:</b> Mouse, Human
免疫原	Synthetic peptide corresponding to Human ATF2 aa 50-150. Database link: <a href="#">P15336</a>
ポジティブ・コントロール	IP: HeLa treated with 250ng/ml anisomycin for 30min whole cell lysate. ICC/IF: HeLa cells treated with 250ng/ml anisomycin for 30min.
特記事項	<p>SAPK and p38 MAPK activate, in response to cellular stress, ATF2 by phosphorylating the protein at Thr69 and Thr71. Mutations of these sites result in the loss of stress induced transcription by ATF2.</p> <p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> <li>- High batch-to-batch consistency and reproducibility</li> <li>- Improved sensitivity and specificity</li> <li>- Long-term security of supply</li> <li>- Animal-free production</li> </ul> <p>For more information <a href="#">see here</a>.</p> <p>Our RabMAb<sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <a href="#">RabMAb<sup>®</sup> patents</a>.</p> <p>Rat: We have preliminary internal testing data to indicate this antibody may not react with this species. Please contact us for more information.</p>

#### 製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
バッファー	pH: 7.20 Preservative: 0.01% Sodium azide

	Constituents: 49% PBS, 50% Glycerol (glycerin, glycerine), 0.05% BSA
精製度	Protein A purified
一次抗体 備考	SAPK and p38 MAPK activate, in response to cellular stress, ATF2 by phosphorylating the protein at Thr69 and Thr71. Mutations of these sites result in the loss of stress induced transcription by ATF2.
ポリ/モノ	モノクローナル
クローン名	E268
アイソタイプ	IgG

## アプリケーション

**The Abpromise guarantee**      **Abpromise保証は、次のテスト済みアプリケーションにおけるab32019の使用に適用されます**  
 アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

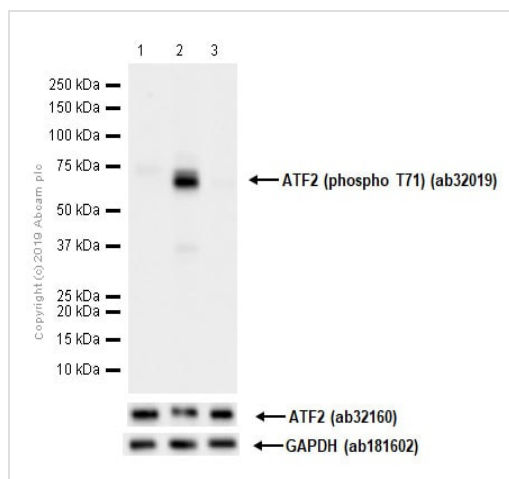
アプリケーション	Abreviews	特記事項
WB		1/5000. Detects a band of approximately 70 kDa (predicted molecular weight: 54 kDa).
IP		1/30.
ICC/IF		1/500.
Dot blot		Use at an assay dependent concentration.

**追加情報**      Is unsuitable for Flow Cyt or IHC.

## ターゲット情報

機能	Transcriptional activator, probably constitutive, which binds to the cAMP-responsive element (CRE) (consensus: 5'-GTGACGT[AC][AG]-3'), a sequence present in many viral and cellular promoters. Interaction with JUN redirects JUN to bind to CRES preferentially over the 12-O-tetradecanoylphorbol-13-acetate response elements (TRES) as part of an ATF2/JUN complex.
組織特異性	Abundant expression seen in the brain.
配列類似性	Belongs to the bZIP family. ATF subfamily. Contains 1 bZIP domain. Contains 1 C2H2-type zinc finger.
翻訳後修飾	Phosphorylation of Thr-69 and Thr-71 by MAPK14 causes increased transcriptional activity. Also phosphorylated and activated by JNK.
細胞内局在	Nucleus.

## 画像



Western blot - Anti-ATF2 (phospho T71) antibody [E268] (ab32019)

**All lanes :** Anti-ATF2 (phospho T71) antibody [E268] (ab32019) at 0.526 µg/ml

**Lane 1 :** HeLa (human cervix adenocarcinoma epithelial cell) grown in serum free media for overnight, whole cell lysate

**Lane 2 :** HeLa grown in serum free media for overnight, then treated with 250ng/ml Anisomycin for 30min, whole cell lysate

**Lane 3 :** HeLa grown in serum free media for overnight, then treated with 250ng/ml Anisomycin for 30min whole cell lysate. Then the membrane was incubated with alkaline phosphatase.

Lysates/proteins at 20 µg per lane.

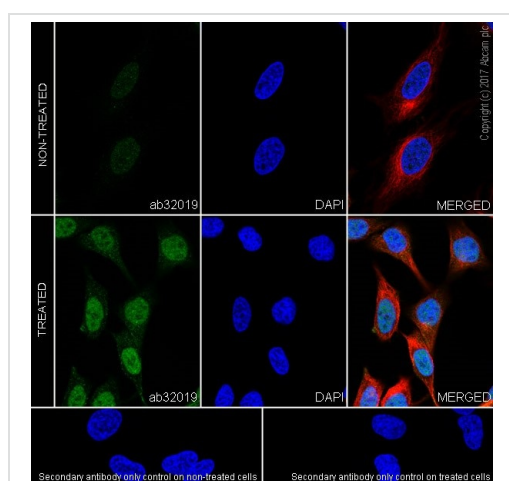
### Secondary

**All lanes :** Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 0.05 µg/ml

**Predicted band size:** 54 kDa

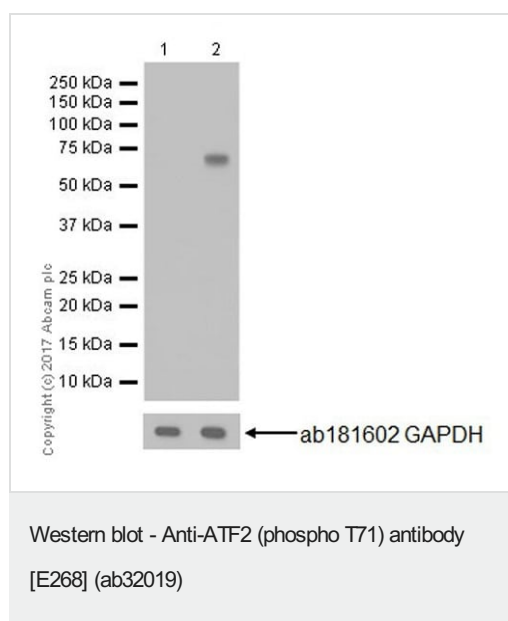
**Observed band size:** 70 kDa

Blocking/Diluting Buffer and concentration: 5% NFDM/TBST



Immunocytochemistry/ Immunofluorescence - Anti-ATF2 (phospho T71) antibody [E268] (ab32019)

Immunocytochemistry of HeLa (Human epithelial cell line from cervix adenocarcinoma), prepared in FBS free medium overnight labeling ATF2 at 0.9 µg/ml. Cells were fixed with 4% paraformaldehyde and permeabilized with 0.1% tritonX-100. AlexaFluor®488 Goat anti-Rabbit (**ab150077**) was used as the secondary antibody at 1/500 . Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594) (**ab195889**) was used as the counter stain at 2.5 µg/ml. DAPI was used for nuclear counter stain. Confocal image showing the expression was increased on HeLa cells, prepared in FBS free medium overnight, then treated with 250ng/ml anisomycin for 30min.



**All lanes :** Anti-ATF2 (phospho T71) antibody [E268] (ab32019) at 0.1 µg/ml

**Lane 1 :** Untreated NIH/3T3 (mouse embryo), prepared in FBS free medium overnight, whole cell lysate

**Lane 2 :** NIH/3T3, prepared in FBS free medium overnight, then treated with 10 µg/ml anisomycin for 30 minutes whole cell lysate

Lysates/proteins at 10 µg per lane.

### Secondary

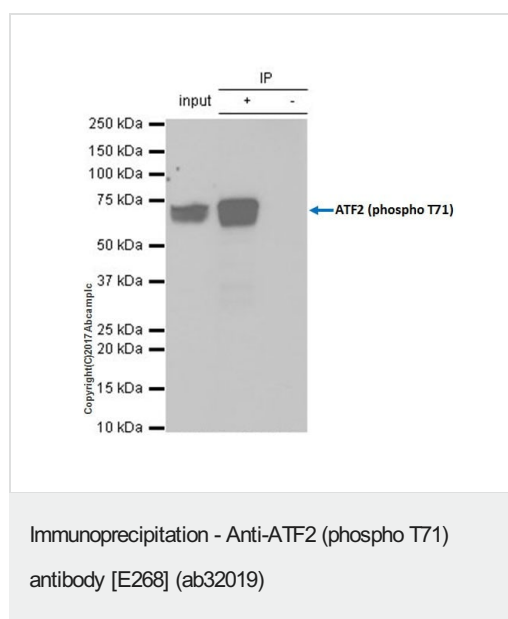
**All lanes :** Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/100000 dilution

**Predicted band size:** 54 kDa

**Observed band size:** 70 kDa

**Exposure time:** 5 seconds

Blocking and diluting buffer used was 2% BSA/TBST.



**Lane 1 (input):** HeLa (human cervix adenocarcinoma) treated with 250ng/ml anisomycin for 30min whole cell lysate 10µg.

**Lane 2 (+):** HeLa treated with 250ng/ml anisomycin for 30min whole cell lysate.

**Lane 3 (-):** Rabbit monoclonal IgG (**ab172730**) instead of ab32019 in HeLa treated with 250ng/ml anisomycin for 30min whole cell lysate.

Ab32019 Immunoprecipitating ATF2 in Human Hela whole cell lysate. For western blotting ab32019 (1:1000) was used to confirm successful immunoprecipitation. Blocking and diluting buffer used was 5% NFDm/TBST.

**All lanes :** Anti-ATF2 (phospho T71) antibody [E268] (ab32019) at 0.47 µg/ml

**Lane 1 :** HeLa (human cervix adenocarcinoma) treated with 250ng/ml anisomycin for 30min whole cell lysate at 10 µg

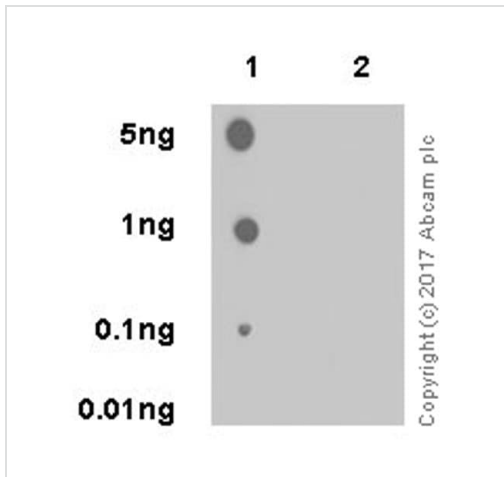
**Lane 2 :** HeLa treated with 250ng/ml anisomycin for 30min whole cell lysate

**Lane 3 :** Rabbit monoclonal IgG ([ab172730](#)) instead of ab32019 in HeLa treated with 250ng/ml anisomycin for 30min whole cell lysate

### Secondary

**All lanes :** VeriBlot for IP Detection Reagent (HRP) ([ab131366](#)) at 1/10000 dilution

**Exposure time:** 3 minutes

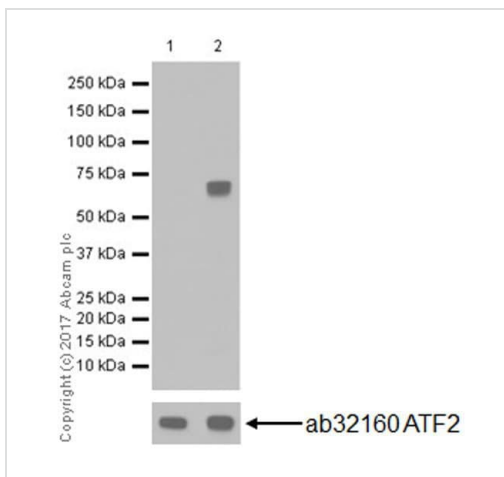


Dot Blot - Anti-ATF2 (phospho T71) antibody [E268] (ab32019)

Dot blot analysis of ATF2 (phospho T71) peptide (Lane 1) and ATF2 non-phospho peptide (Lane 2) using ab32019 at 1/1000 dilution followed by Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated ([ab97051](#)) at 1/100000 dilution.

Exposure time: 3 minutes

Blocking and Diluting buffer and concentration: 5% NFDM /TBST.



Western blot - Anti-ATF2 (phospho T71) antibody [E268] (ab32019)

**All lanes :** Anti-ATF2 (phospho T71) antibody [E268] (ab32019) at 0.1 µg/ml

**Lane 1 :** HeLa (human cervix adenocarcinoma), prepared in FBS free medium overnight, whole cell lysate

**Lane 2 :** HeLa, prepared in FBS free medium overnight, then treated with 250ng/ml anisomycin for 30 minutes whole cell lysate

Lysates/proteins at 10 µg per lane.

### Secondary

**All lanes :** Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/100000 dilution

**Predicted band size:** 54 kDa

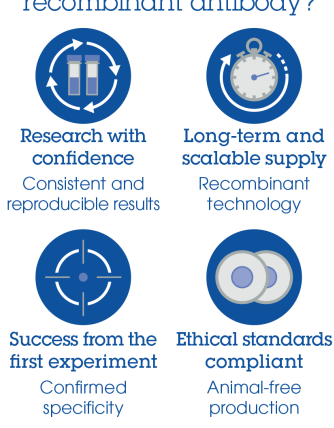
**Observed band size:** 70 kDa

**Exposure time:** 10 seconds

Blocking and diluting buffer used was 2% BSA/TBST .

The molecular weight is 70kD , consistent with the literature (PMID: 24223142).

Why choose a recombinant antibody?



- Research with confidence**  
Consistent and reproducible results
- Long-term and scalable supply**  
Recombinant technology
- Success from the first experiment**  
Confirmed specificity
- Ethical standards compliant**  
Animal-free production

Anti-ATF2 (phospho T71) antibody [E268] (ab32019)

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

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