

## Product datasheet

# Anti-ATF3 antibody [44C3a] ab58668

★★★★☆ 3 Abreviews 4 References 4 图像

### 概述

产品名称	Anti-ATF3抗体[44C3a]
描述	小鼠单克隆抗体[44C3a] to ATF3
宿主	Mouse
经测试应用	适用于: WB, Dot blot, ICC/IF, IHC-Fr
种属反应性	与反应: Rat, Human
免疫原	Recombinant fragment corresponding to Human ATF3.

### 性能

形式	Liquid
存放说明	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.
存储溶液	Preservative: 0.05% Sodium Azide Constituents: 1% BSA, PBS (8.0mM Sodium phosphate, 3.0mM Potassium chloride, 140mM Sodium chloride, 1.5mM Potassium phosphate), pH 7.4
纯度	Protein G purified
纯化说明	ab58668 was purified using protein G column chromatography from culture supernatant of hybridoma cultured in a medium containing bovine IgG-depleted (approximately 95%) fetal bovine serum and filtered through a 0.22µm membrane.
克隆	单克隆
克隆编号	44C3a
同种型	IgG1

### 应用

Our [Abpromise guarantee](#) covers the use of **ab58668** in the following tested applications.

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

应用	Ab评论	说明
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应用	Ab评论	说明
WB		Use at an assay dependent concentration. Detects a band of approximately 35 kDa (predicted molecular weight: 21 kDa).
Dot blot		Use at an assay dependent concentration.
ICC/IF		Use at an assay dependent concentration. PubMed 20054152
IHC-Fr	★★★★☆	Use at an assay dependent concentration.

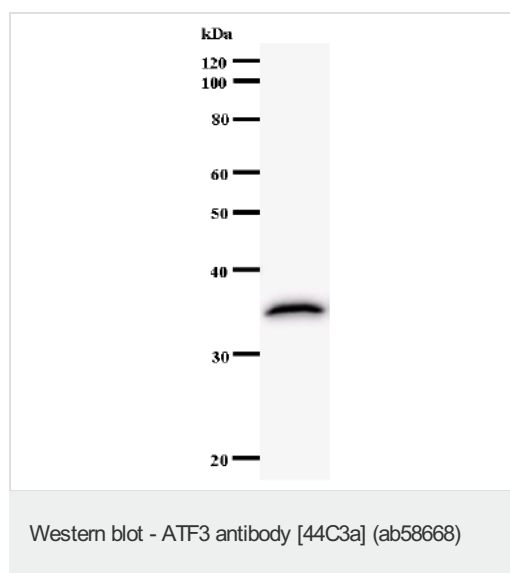
## 靶标

**功能** This protein binds the cAMP response element (CRE) (consensus: 5'-GTGACGT[AC][AG]-3'), a sequence present in many viral and cellular promoters. Represses transcription from promoters with ATF sites. It may repress transcription by stabilizing the binding of inhibitory cofactors at the promoter. Isoform 2 activates transcription presumably by sequestering inhibitory cofactors away from the promoters.

**序列相似性** Belongs to the bZIP family. ATF subfamily.  
Contains 1 bZIP domain.

**细胞定位** Nucleus.

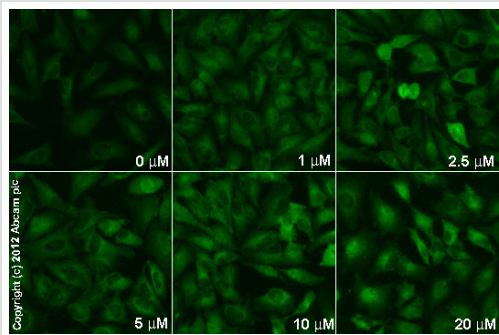
## 图片



Anti-ATF3 antibody [44C3a] (ab58668) + immunising recombinant protein

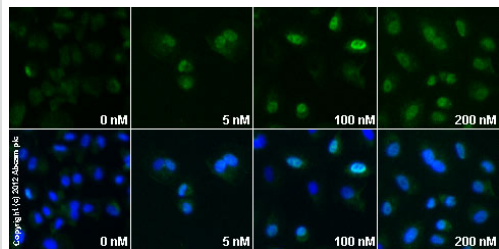
**Predicted band size:** 21 kDa

**Observed band size:** 35 kDa



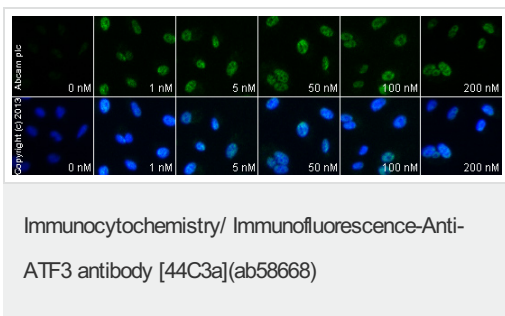
Immunocytochemistry/ Immunofluorescence - Anti-ATF3 antibody [44C3a] (ab58668)

ab58668 staining ATF3 in A549 cells treated with ionomycin Ca<sup>2+</sup> salt (ab120116), by ICC/IF. Increase in ATF3 expression correlates with increased concentration of ionomycin Ca<sup>2+</sup> salt, as described in literature. The cells were incubated at 37°C for 2h in media containing different concentrations of ab120116 (ionomycin Ca<sup>2+</sup> salt) in DMSO, fixed with 4% formaldehyde for 10 minutes at room temperature and blocked with PBS containing 10% goat serum, 0.3 M glycine, 1% BSA and 0.1% tween for 2h at room temperature. Staining of the treated cells with ab58668 (10 μg/ml) was performed overnight at 4°C in PBS containing 1% BSA and 0.1% tween. A DyLight 488 goat anti-mouse polyclonal antibody (ab96879) at 1/250 dilution was used as the secondary antibody. Nuclei were counterstained with DAPI and are shown in blue.



Immunocytochemistry/ Immunofluorescence - Anti-ATF3 antibody [44C3a] (ab58668)

ab58668 staining ATF3 in A549 cells treated with ionomycin (free acid) (ab120370), by ICC/IF. Increase in ATF3 expression correlates with increased concentration of ionomycin (free acid), as described in literature. The cells were incubated at 37°C for 2h in media containing different concentrations of ab120370 (ionomycin (free acid)) in DMSO, fixed with 4% formaldehyde for 10 minutes at room temperature and blocked with PBS containing 10% goat serum, 0.3 M glycine, 1% BSA and 0.1% tween for 2h at room temperature. Staining of the treated cells with ab58668 (10 μg/ml) was performed overnight at 4°C in PBS containing 1% BSA and 0.1% tween. A DyLight 488 goat anti-mouse polyclonal antibody (ab96879) at 1/250 dilution was used as the secondary antibody. Nuclei were counterstained with DAPI and are shown in blue.



ab58668 staining ATF3 in serum starved A549 cells treated with thapsigargin (ab120286), by ICC/IF. Increase of ATF3 correlates with increased concentration of thapsigargin, as described in literature. The cells were incubated at 37°C for 1h in media containing different concentrations of ab120286 (thapsigargin) in DMSO, fixed with 4% formaldehyde for 10 minutes at room temperature and blocked with PBS containing 10% goat serum, 0.3 M glycine, 1% BSA and 0.1% tween for 2h at room temperature. Staining of the treated cells with ab58668 (10 µg/ml) was performed overnight at 4°C in PBS containing 1% BSA and 0.1% tween. A DyLight 488 goat anti-mouse polyclonal antibody (ab96879) at 1/250 dilution was used as the secondary antibody. Nuclei were counterstained with DAPI and are shown in blue.

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