abcam

Product datasheet

Anti-ATF3 antibody [44C3a] ab58668

3 Abreviews 5 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

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.

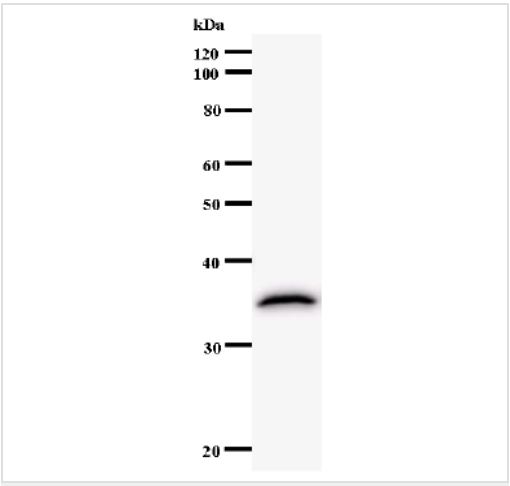
靶标

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.

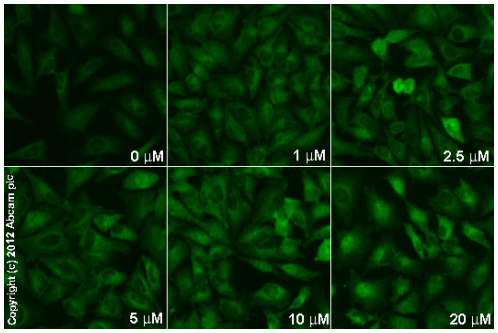
图片



Western blot - Anti-ATF3 antibody [44C3a] (ab58668)

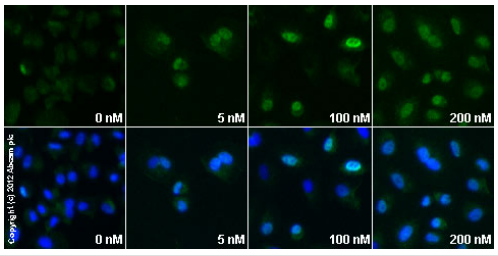
Anti-ATF3 antibody [44C3a] (ab58668) + immunising recombinant protein

Predicted band size: 21 kDa
Observed band size: 35 kDa



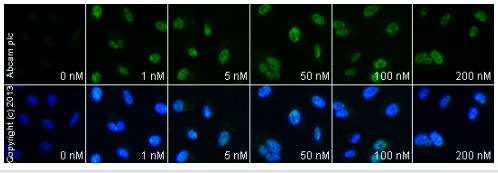
Immunocytochemistry/ Immunofluorescence - Anti-ATF3 antibody [44C3a] (ab58668)

ab58668 staining ATF3 in A549 cells treated with ionomycin Ca^{2+} salt (ab120116), by ICC/IF. Increase in ATF3 expression correlates with increased concentration of ionomycin Ca^{2+} salt, as described in literature.
The cells were incubated at 37°C for 2h in media containing different concentrations of ab120116 (ionomycin Ca^{2+} 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.



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

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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