

Anti-IRF3 antibody ab21680

1 References [画像数 1](#)

製品の概要

製品名	Anti-IRF3 antibody
製品の詳細	Mouse polyclonal to IRF3
由来種	Mouse
アプリケーション	適用あり: WB
種交差性	交差種: Human
免疫原	Fusion protein: RAGQWLWAQRLGHCHTYWAVSEELLPNSGHGPDGEVPKDKEG GVFDLGPF IVDLITFTEGSGRSPRYALWFCVGESWPQDQPWTKRLVMVKV VPTCLRAL , corresponding to amino acids 276/375 of Human IRF3 <div style="display: flex; justify-content: space-around; margin-top: 5px;">  Run BLAST with  Run BLAST with </div>
特記事項	Produced from outbred CD1 mice This antibody was raised by a genetic immunization technique. Genetic immunization can be used to generate antibodies by directly delivering antigen-coding DNA into the animal, rather than injecting a protein or peptide (Tang <i>et al.</i> PubMed: 1545867 ; Chambers and Johnston PubMed: 12910245 ; Barry and Johnston PubMed: 9234514). The animal's cells produce the protein, which stimulates the animal's immune system to produce antibodies against that particular protein. A vector coding for a partial fusion protein was used for genetic immunisation of a mouse and the resulting serum was tested in Western blot against an <i>E.coli</i> lysate containing that partial fusion protein. Genetic immunization offers enormous advantages over the traditional protein-based immunization method. DNA is faster, cheaper and easier to produce and can be produced by standard techniques readily amenable to automation. Furthermore, the antibodies generated by genetic immunization are usually of superior quality with regard to specificity, affinity and recognizing the native protein.

製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term.

バッファー	Constituent: 50% Glycerol
精製度	Whole antiserum
一次抗体 備考	This antibody was raised by a genetic immunization technique. Genetic immunization can be used to generate antibodies by directly delivering antigen-coding DNA into the animal, rather than injecting a protein or peptide (Tang <i>et al.</i> PubMed: 1545867 ; Chambers and Johnston PubMed: 12910245 ; Barry and Johnston PubMed: 9234514). The animal's cells produce the protein, which stimulates the animal's immune system to produce antibodies against that particular protein. A vector coding for a partial fusion protein was used for genetic immunisation of a mouse and the resulting serum was tested in Western blot against an <i>E.coli</i> lysate containing that partial fusion protein. Genetic immunization offers enormous advantages over the traditional protein-based immunization method. DNA is faster, cheaper and easier to produce and can be produced by standard techniques readily amenable to automation. Furthermore, the antibodies generated by genetic immunization are usually of superior quality with regard to specificity, affinity and recognizing the native protein.
ポリモノ	ポリクローナル
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ab21680の使用に適用されず**
 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		1/1000. Predicted molecular weight: 47 kDa. This antibody has been tested in Western blot against an <i>E.coli</i> lysate containing the partial recombinant fusion protein used as an immunogen. We have no data on detection of endogenous protein.

ターゲット情報

機能	Mediates interferon-stimulated response element (ISRE) promoter activation. Functions as a molecular switch for antiviral activity. DsRNA generated during the course of a viral infection leads to IRF3 phosphorylation on the C-terminal serine/threonine cluster. This induces a conformational change, leading to its dimerization, nuclear localization and association with CREB binding protein (CREBBP) to form dsRNA-activated factor 1 (DRAF1), a complex which activates the transcription of genes under the control of ISRE. The complex binds to the IE and PRDIII regions on the IFN-alpha and IFN-beta promoters respectively. IRF-3 does not have any transcription activation domains.
組織特異性	Expressed constitutively in a variety of tissues.
配列類似性	Belongs to the IRF family. Contains 1 IRF tryptophan pentad repeat DNA-binding domain.
翻訳後修飾	Constitutively phosphorylated on many serines residues. C-terminal serine/threonine cluster is phosphorylated in response of induction by IKKε and TBK1. Ser-385 and Ser-386 may be specifically phosphorylated in response to induction. An alternate model propose that the five serine/threonine residues between 396 and 405 are phosphorylated in response to a viral

infection. Phosphorylation, and subsequent activation of IRF3 is inhibited by vaccinia virus protein E3.

Ubiquitinated; ubiquitination involves RBCK1 leading to proteasomal degradation.

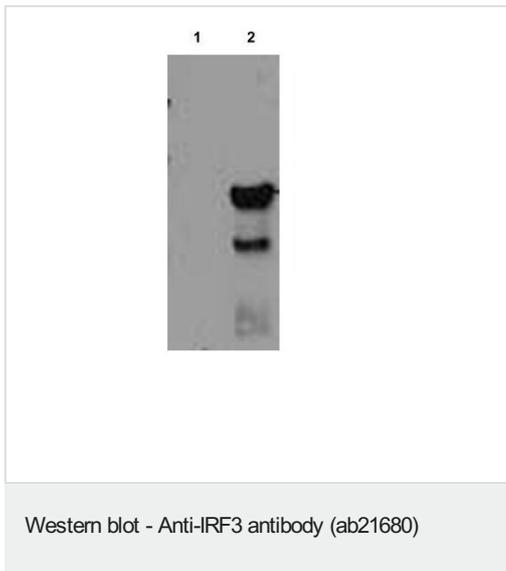
Polyubiquitinated; ubiquitination involves TRIM21 leading to proteasomal degradation.

ISGylated by HERC5 resulting in sustained IRF3 activation and in the inhibition of IRF3 ubiquitination by disrupting PIN1 binding. The phosphorylation state of IRF3 does not alter ISGylation.

細胞内局在

Cytoplasm. Nucleus. Shuttles between cytoplasmic and nuclear compartments, with export being the prevailing effect. When activated, IRF3 interaction with CREBBP prevents its export to the cytoplasm.

画像



All lanes : Anti-IRF3 antibody (ab21680) at 1/1000 dilution

Lane 1 : Total protein extract from E. coli with ~50ng to 100ng of a negative control fusion protein with an irrelevant antigen at 20 ug

Lane 2 : Total protein extract from E. coli with ~50ng to 500ng of the antigen fusion protein at 20 ug

Secondary

All lanes : Rabbit anti-mouse IgG + IgM, (H+L) horseradish peroxidase conjugated at 1/5000 dilution

Predicted band size: 47 kDa

The molecular weight of the band on the western blot (Upper band = 38kDa) does not correspond to the predicted band size above (predicted from the molecular weight of the natural protein) because of the additional mass of the fusion and because the fusion protein only contains a partial fragment of the gene.

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