## abcam

## Product datasheet

# Alexa Fluor® 488 Anti－NF－kB p65 antibody［E379］ab190205 

ココビナント RabMAb

## 2 References 画像数 2

## 製品の概要

## 製品名

製品の詳細
由来種
標識
アプリケーション

## 種交差性

免疫原
ポジティブ・コントロール
特記事項
Alexa Fluor® 488 Anti－NF－kB p65 antibody［E379］
Alexa Fluor® 488 Rabbit monoclonal［E379］to NF－kB p65
Rabbit
Alexa Fluor® 488．Ex：495nm，Em：519nm
適用あり：ICC／IF
交差種：Human
Synthetic peptide．This information is proprietary to Abcam and／or its suppliers．
ICC／IF：HeLa cells．
Our RabMAb ${ }^{\circledR}$ technology is a patented hybridoma－based technology for making rabbit monoclonal antibodies．For details on our patents，please refer to RabMAb $^{\circledR}$ patents．

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## 製品の特性

## 製品の状態

保存方法

Liquid
Shipped at $4^{\circ} \mathrm{C}$ ．Store at $+4^{\circ} \mathrm{C}$ short term（ $1-2$ weeks）．Upon delivery aliquot．Store at $-20^{\circ} \mathrm{C}$ ． Avoid freeze／thaw cycle．Store In the Dark．

Preservative：0．02\％Sodium azide
Constituents：PBS，30\％Glycerol（glycerin，glycerine），1\％BSA

| 精製度 | Protein A purified |
| :--- | :--- |
| ポリ／モノ | モノクローナル |
| クローン名 | E379 |
| アイソタイプ | $\operatorname{lgG}$ |

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ab190205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

## ICC／IF

特記事項

1／50．Signal can be observed in cells fixed with MeOH or PFA．

## ターゲット情報

配列類似性
ドメイン

翻訳後修飾

NF－kappa－B is a pleiotropic transcription factor which is present in almost all cell types and is involved in many biological processed such as inflammation，immunity，differentiation，cell growth， tumorigenesis and apoptosis．NF－kappa－B is a homo－or heterodimeric complex formed by the Rel－like domain－containing proteins RELA／p65，RELB，NFKB1／p105，NFKB1／p50，REL and NFKB2／p52 and the heterodimeric p65－p50 complex appears to be most abundant one．The dimers bind at kappa－B sites in the DNA of their target genes and the individual dimers have distinct preferences for different kappa－B sites that they can bind with distinguishable affinity and specificity．Different dimer combinations act as transcriptional activators or repressors， respectively．NF－kappa－B is controlled by various mechanisms of post－translational modification and subcellular compartmentalization as well as by interactions with other cofactors or corepressors．NF－kappa－B complexes are held in the cytoplasm in an inactive state complexed with members of the NF－kappa－B inhibitor（I－kappa－B）family．In a conventional activation pathway， I－kappa－B is phosphorylated by l－kappa－B kinases（IKKs）in response to different activators， subsequently degraded thus liberating the active NF－kappa－B complex which translocates to the nucleus．NF－kappa－B heterodimeric p65－p50 and p65－c－Rel complexes are transcriptional activators．The NF－kappa－B p65－p65 complex appears to be involved in invasin－mediated activation of IL－8 expression．The inhibitory effect of l－kappa－B upon NF－kappa－B the cytoplasm is exerted primarily through the interaction with p65．p65 shows a weak DNA－binding site which could contribute directly to DNA binding in the NF－kappa－B complex．Associates with chromatin at the NF－kappa－B promoter region via association with DDX1．

Contains 1 RHD（Rel－like）domain．
the 9aaTAD motif is a transactivation domain present in a large number of yeast and animal transcription factors．

Ubiquitinated，leading to its proteasomal degradation．Degradation is required for termination of NF－kappa－B response．
Monomethylated at Lys－310 by SETD6．Monomethylation at Lys－310 is recognized by the ANK repeats of EHMT1 and promotes the formation of repressed chromatin at target genes，leading to down－regulation of NF－kappa－B transcription factor activity．Phosphorylation at Ser－311 disrupts
the interaction with EHMT1 without preventing monomethylation at Lys－310 and relieves the repression of target genes．
Phosphorylation at Ser－311 disrupts the interaction with EHMT1 and promotes transcription factor activity（By similarity）．Phosphorylation on Ser－536 stimulates acetylation on Lys－310 and interaction with CBP；the phosphorylated and acetylated forms show enhanced transcriptional activity．
Reversibly acetylated；the acetylation seems to be mediated by CBP，the deacetylation by HDAC3．Acetylation at Lys－122 enhances DNA binding and impairs association with NFKBIA． Acetylation at Lys－310 is required for full transcriptional activity in the absence of effects on DNA binding and NFKBIA association．Acetylation can also lower DNA－binding and results in nuclear export．Interaction with BRMS1 promotes deacetylation of＇Lys－310＇．

細胞内局在
Nucleus．Cytoplasm．Nuclear，but also found in the cytoplasm in an inactive form complexed to an inhibitor（I－kappa－B）．Colocalized with RELA in the nucleus upon TNF－alpha induction．

画像


Immunocytochemistry／Immunofluorescence－Alexa Fluor® 488 Anti－NF－kB p65 antibody［E379］ （ab190205）
ab190205 staining NF－kB p65 in HeLa cells．The cells were fixed with $100 \%$ methanol（ 5 min ），permeabilized in $0.1 \%$ Triton X－100 for 5 minutes and then blocked in 1\％BSA／10\％normal goat serum $/ 0.3 \mathrm{M}$ glycine in $0.1 \%$ PBS－Tween for 1 h ．The cells were then incubated with ab190205 at a working dilution of 1 in 50 （shown in green）and ab195889，Mouse monoclonal［DM1A］to alpha Tubulin （Alexa Fluor ${ }^{\circledR} 594$ ，shown in red）at a dilution of 1 in 250 overnight at $+4^{\circ} \mathrm{C}$ ．Nuclear DNA was labelled in blue with DAPI．

This product also gave a positive signal in 4\％formaldehyde（10 min ）fixed HeLa cells under the same testing conditions．

Image was taken with a confocal microscope（Leica－Microsystems， TCS SP8）．
Why choose a

| Research with |
| :---: |
| confidence |
| Consistent and |
| reproducible results |


| Long-term and |
| :--- |
| scalable supply |
| Recombinant |
| technology |

Success from the antibody?
first experiment
Confirmed

specificity $\quad$| Ethical standards |
| :--- |
| compliant |
| Animal-free |
| production |

Alexa Fluor® 488 Anti-NF-kB p65 antibody [E379] (ab190205)

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