abcam

Product datasheet

Alexa Fluor® 488 Anti-CRISPR-Cas9 antibody [EPR18991] ab215239

リコンビナント RabMAb

★★★★★ 1 Abreviews 1 References 画像数 2

製品の概要

製品名 Alexa Fluor® 488 Anti-CRISPR-Cas9 antibody [EPR18991]

製品の詳細 Alexa Fluor® 488 Rabbit monoclonal [EPR18991] to CRISPR-Cas9

由来種 Rabbit

標識 Alexa Fluor® 488. Ex: 495nm, Em: 519nm

アプリケーション **適用あり:** ICC/IF

種交差性

交差が予測される動物種: Streptococcus pyogenes

免疫原 Recombinant fragment within Streptococcus pyogenes CRISPR-Cas9 aa 800-1000. The exact immunogen sequence used to generate this antibody is proprietary information. If additional detail on the immunogen is needed to determine the suitability of the antibody for your needs, please **contact** our Scientific Support team to discuss your requirements. (Serotype M1).
Database link: **Q99ZW2**

Run BLAST with Run BLAST with

ポジティブ・コントロール ICC/IF: Cas9 transfected NIH3T3 cells

特記事項 This product is a recombinant monoclonal antibody, which offers several advantages including:

- High batch-to-batch consistency and reproducibility
- Improved sensitivity and specificity
- Long-term security of supply
- Animal-free production

For more information **see here**.

Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to **RabMAb® patents**.

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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. Avoid freeze / thaw cycle. Store In the Dark.
バッファー	pH: 7.40 Preservative: 0.02% Sodium azide Constituents: 30% Glycerol (glycerin, glycerine), 1% BSA, PBS
精製度	Protein A purified
ポリ/モノ	モノクローナル
クローン名	EPR18991
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ab215239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。

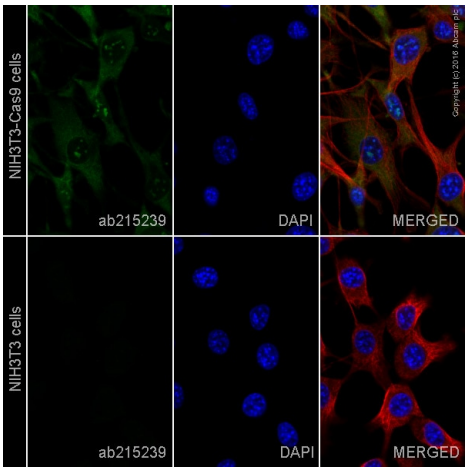
アプリケーション	Abreviews	特記事項
ICC/IF		1/1000. This product gave a positive signal in Cas9 transfected NIH3T3 cells fixed with100% methanol (5 min)

ターゲット情報

関連性

[FUNCTION] CRISPR (clustered regularly interspaced short palindromic repeat) is an adaptive immune system that provides protection against mobile genetic elements (viruses, transposable elements and conjugative plasmids). CRISPR clusters contain spacers, sequences complementary to antecedent mobile elements, and target invading nucleic acids. CRISPR clusters are transcribed and processed into CRISPR RNA (crRNA) (Probable). In type II CRISPR systems correct processing of pre-crRNA requires a trans-encoded small RNA (tracrRNA), endogenous ribonuclease 3 (rnc) and this protein. The tracrRNA serves as a guide for ribonuclease 3-aided processing of pre-crRNA. Subsequently Cas9/crRNA/tracrRNA endonucleolytically cleaves linear or circular dsDNA target complementary to the spacer. The target strand not complementary to crRNA is first cut endonucleolytically, then trimmed by 3'-5' exonucleolytically. DNA-binding requires protein and both RNA species. Cas9 probably recognizes a short motif in the CRISPR repeat sequences (the PAM or protospacer adjacent motif) to help distinguish self versus nonself.

画像

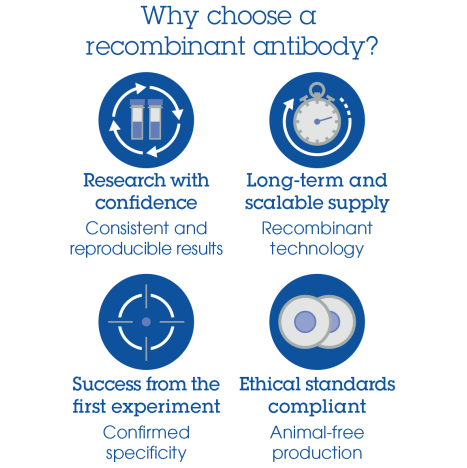


Immunocytochemistry/ Immunofluorescence - Alexa Fluor® 488 Anti-CRISPR-Cas9 antibody [EPR18991] (ab215239)

ab215239 staining CRISPR-Cas9 in NIH3T3-Cas9 cells. The lower panels demonstrate that ab215239 does not cross react with un-transfected NIH3T3 cells.

The cells were fixed with 100% methanol (5 min), permeabilized with 0.1% Triton X-100 for 5 minutes and then blocked with 1% BSA/10% normal goat serum/0.3M glycine in 0.1% PBS-Tween for 1h. The cells were then incubated overnight at +4°C with ab215239 at 1/1000 dilution (shown in green) and **ab195889**, Mouse monoclonal to alpha Tubulin (Alexa Fluor® 594), at 1/250 dilution (shown in red). Nuclear DNA was labelled with DAPI (shown in blue).

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



Alexa Fluor® 488 Anti-CRISPR-Cas9 antibody [EPR18991] (ab215239)

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