

Product datasheet

Anti-CRISPR-Cas9 antibody [EPR19799] (Phycoerythrin) ab215701

Recombinant RabMAb

1 Image

Overview

Product name	Anti-CRISPR-Cas9 antibody [EPR19799] (Phycoerythrin)
Description	Rabbit monoclonal [EPR19799] to CRISPR-Cas9 (Phycoerythrin)
Host species	Rabbit
Conjugation	Phycoerythrin. Ex: 488nm, Em: 575nm
Tested applications	Suitable for: Flow Cyt
Species reactivity	Reacts with: Staphylococcus aureus
Immunogen	Synthetic peptide within CRISPR-Cas9 aa 100-200. The exact sequence is proprietary. Staphylococcus aureus Database link: J7RUA5
Positive control	Flow Cyt: 293T cells transfected with CRISPR-Cas9 with Myc tag
General notes	Our RabMAb [®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents This product is a recombinant rabbit monoclonal antibody.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at +4°C. Do Not Freeze. Store In the Dark.
Storage buffer	pH: 7.4 Preservative: 0.02% Sodium azide Constituents: PBS, 1% BSA
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR19799
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab215701** in the following tested applications.

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

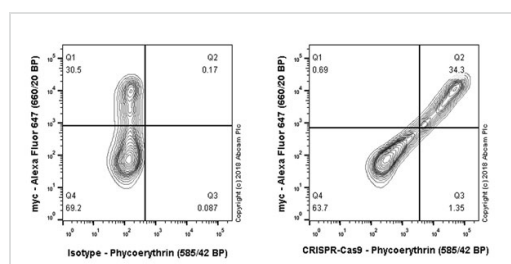
Application	Abreviews	Notes
Flow Cyt		1/500. The cellular localisation of this product has been verified in ICC/IF.

Target

Relevance

[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.

Images



Flow Cytometry - Anti-CRISPR-Cas9 antibody
[EPR19799] (Phycoerythrin) (ab215701)

Flow cytometric analysis of 293T transfected with CRISPR-Cas9 with Myc tag stained with ab215701 (right panel). The cells were fixed with 4% formaldehyde (10 min) and then permeabilized with 90% methanol. The cells were then incubated in 1x PBS / 10% normal goat serum to block non-specific protein-protein interactions followed by the antibody (ab215701, 1/500 dilution) for 30 min at 22°C.

Isotype control antibody (left panel) was Rabbit IgG (monoclonal) Phycoerythrin ([ab209478](#)) used at the same concentration and conditions as the primary antibody. Co-staining with anti-myc (y-axis).

Acquisition of >5,000 events were collected using a 20 mW blue solid-state laser (488nm) and 585/42 bandpass filter.

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