Product datasheet

Anti-Staphylococcus aureus antibody ab20920

Overview

Product name  Anti-Staphylococcus aureus antibody
Description  Rabbit polyclonal to Staphylococcus aureus
Host species  Rabbit
Specificity  Soluble and structural antigens of the whole bacterium. Antiserum is not absorbed for related microorganisms.

Tested applications  Suitable for: ICC/IF, IHC-Fr
Species reactivity  Reacts with: Staphylococcus aureus
Immunogen  Staphylococcus aureus strain ATCC 27660 (mixture of intact organisms and lysed cells).

Properties

Form  Liquid
Storage instructions  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.
Storage buffer  pH: 7.20
Preservative: 0.1% Sodium azide
Constituent: 0.0268% PBS
Purity  Protein A purified
Clonality  Polyclonal
Isotype  IgG

Applications

Our Abpromise guarantee covers the use of ab20920 in the following tested applications.
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

<table>
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<th>Application</th>
<th>Abreviews</th>
<th>Notes</th>
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<tr>
<td>ICC/IF</td>
<td>5</td>
<td>Use at an assay dependent concentration.</td>
</tr>
<tr>
<td>IHC-Fr</td>
<td>5</td>
<td>Use at an assay dependent concentration. Use with acetone fixed tissues.</td>
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Relevance

S. aureus binds IgG molecules by their Fc region. In serum, the bacteria will bind IgG molecules in the wrong orientation on their surface, which hinders opsonization and phagocytosis. Mutants of S. aureus lacking protein A are more efficiently phagocytosed in vitro, and mutants in infection models have diminished virulence. Due to its affinity for the Fc region of many mammalian immunoglobulins, protein A is considered a universal reagent in biochemistry and immunology.

Cellular localization

Secreted; cell wall.

Images

ab20920 staining an abscess in rat calf tissue prepared as a 20 µm cryoslice. Tissue was fixed in paraformaldehyde, permeabilised with 0.5% Trition X100 in PBS, and blocked with 10% serum plus 1% BSA for 1 hour at room temperature. The primary antibody was diluted 1/500 with PBS plus 3-5% Serum, 0.5% Trition X100 and incubated for 24 hours at 20°C. An Alexa Fluor® 568 goat anti-rabbit was used as the secondary.

ab20920 staining Staphylococcus aureus in human keratinocytes by Immunocytochemistry/Immunofluorescence. Cells were fixed in methanol, permeabilized using 0.1% saponin/PBS, blocked with 4% BSA for 30 minutes at 25°C and then incubated with ab20920 at 10µg/ml for 14 hours at 4°C. The secondary used was an Alexa-Fluor 488 conjugated goat anti-rabbit polyclonal used at a 1/100 dilution.

Red: cadherin
Blue: DAPI
Green: anti-Staphylococcus aureus (ab20920)

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