Product datasheet

Anti-Staphylococcus aureus antibody ab20920

★★★★☆ 8 Abreviews  20 References  2 Images

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
React with: Staphylococcus aureus

Immunogen
Staphylococcus aureus strain ATCC 27660 (mixture of intact organisms and lysed cells).

General notes
The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing the problem with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation.

One factor contributing to the crisis is the use of antibodies that are not suitable. This can lead to misleading results and the use of incorrect data informing project assumptions and direction. To help address this challenge, we have introduced an application and species grid on our primary antibody datasheets to make it easy to simplify identification of the right antibody for your needs.

Learn more here.

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
Preservative: 0.1% Sodium azide
Constituent: 0.0268% PBS

Purity
Protein A purified

Clonality
Polyclonal

Isotype
IgG

Applications
The Abpromise guarantee

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>
<thead>
<tr>
<th>Application</th>
<th>Abreviews</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>ICC/IF</td>
<td>⭐⭐⭐⭐⭐ (2)</td>
<td>Use at an assay dependent concentration.</td>
</tr>
<tr>
<td>IHC-Fr</td>
<td>⭐⭐⭐⭐⭐ (3)</td>
<td>Use at an assay dependent concentration. Use with acetone fixed tissues.</td>
</tr>
</tbody>
</table>

Target

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% Triton 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% Triton X100 and incubated for 24 hours at 20°C. An Alexa Fluor® 568 goat anti-rabbit was used as the secondary.
Immunocytochemistry/ Immunofluorescence - Anti-Staphylococcus aureus antibody (ab20920)

Image courtesy of an anonymous Abreview.

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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