

Product datasheet

Anti-Streptolysin O (Hemolytic streptococcus) antibody ab188539

[2 References](#) [2 Images](#)

Overview

Product name	Anti-Streptolysin O (Hemolytic streptococcus) antibody
Description	Rabbit polyclonal to Streptolysin O (Hemolytic streptococcus)
Host species	Rabbit
Specificity	ab188539 reacts with Streptolysin O of Group A, C and G origins.
Tested applications	Suitable for: WB, Neutralising, IP
Species reactivity	Reacts with: Species independent
Immunogen	Recombinant full length protein (His-tag) corresponding to Streptolysin O (Hemolytic streptococcus). (from <i>S. dysgalactiae</i> subsp. <i>equismilis</i> H46A (group C hemolytic Streptococci) expressed and highly purified from <i>E. coli</i>).
General notes	<p>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 this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

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 long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 6 Preservative: 0.09% Sodium azide
Purity	Whole antiserum
Clonality	Polyclonal
Isotype	IgG

Applications

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab188539 in the following tested applications.

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

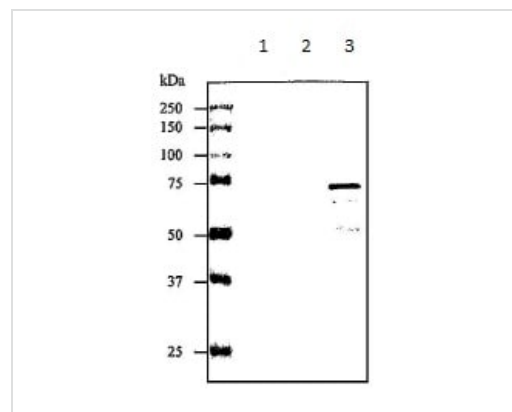
Application	Abreviews	Notes
WB		1/2000 - 1/10000. Predicted molecular weight: 64 kDa.
Neutralising		Use at an assay dependent concentration. Neutralization of hemolysis by Streptolysin O (SLO).
IP		Use at an assay dependent concentration.

Target

Relevance

Streptolysin O (SLO) is a membrane-damaging extracellular toxin produced by hemolytic streptococci. The membrane-damaging activity is measured by hemolysis of red-blood cell. SLO is oxygen-sensitive and is easily inactivated in its presence but can be reactivated by thiol compounds, so it is also called thiol-activated cytolysin. SLO is produced not only by Group A hemolytic streptococci but also by Group C and Group G strains. The amino acid sequences are highly conserved among them and their homology is over 98%.

Images



Western blot - Anti-Streptolysin O (Hemolytic streptococcus) antibody (ab188539)

All lanes : Anti-Streptolysin O (Hemolytic streptococcus) antibody (ab188539) at 1/2000 dilution

Lane 1 : Medium only

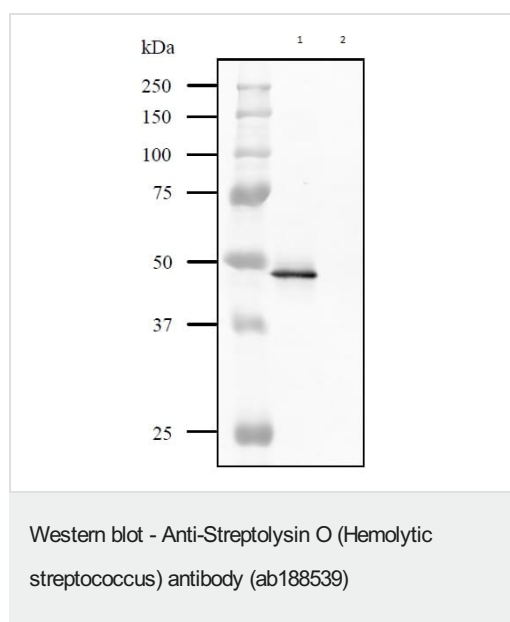
Lane 2 : Culture supernatant of GAS strain Sa

Lane 3 : Culture supernatant of GCS strain H46A

Predicted band size: 64 kDa

Most of Streptolysin O in culture medium of GAS strain Sa is proteolytically degraded, accounting for low activity level of Streptolysin O in the culture of this strain. Condensed sample is analyzed in the second Western Blot.

The two faint bands below Streptolysin O band are partially degraded Streptolysin O.



All lanes : Anti-Streptolysin O (Hemolytic streptococcus) antibody (ab188539) at 1/2000 dilution

Lane 1 : Concentrated culture of GSA strain Sa

Lane 2 : Concentrated medium only

Predicted band size: 64 kDa

Culture supernatant was approximately 1,000~2,000 fold concentrated from culture medium by ammonium fractionation and heat-precipitation.

The Streptolysin O of GSA strains is degraded by an exoprotease called streptococcal pyrogenic exotoxin B and both the concentration and size of Streptolysin O in culture medium is decreased from the native one.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.com/abpromise> or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors