

Product datasheet

Anti-Streptolysin O (Hemolytic streptococcus) antibody ab188539

[1 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

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.

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

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.

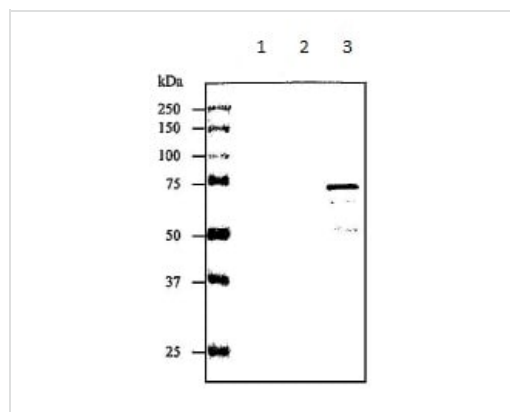
Application	Abreviews	Notes
WB		1/2000 - 1/10000. Predicted molecular weight: 64 kDa.
Neutralising		Use at an assay dependent concentration. Neutralization of hemolysis by Streptolysin O (SLO).
IP		Use at an assay dependent concentration.

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

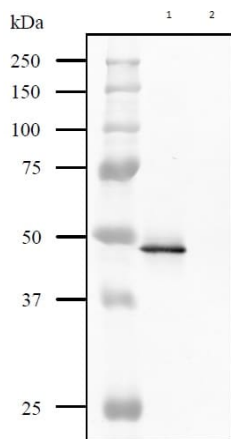
Lane 2 : Culture supernatant of GAS strain Sa

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.



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

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"

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