

Product datasheet

Recombinant Staphylococcus alpha Hemolysin protein (Active) ab233724

1 References 3 Images

Description

| | |
|--|--|
| Product name | Recombinant Staphylococcus alpha Hemolysin protein (Active) |
| Biological activity | ab233724 is active in functional lysis assays with rabbit red blood cells. EC₅₀ ~0.015 µg/ml. |
| Purity | > 80 % SDS-PAGE. |
| Endotoxin level | = 5.165 Eu/mg |
| Expression system | Escherichia coli |
| Accession | P09616 |
| Protein length | Full length protein |
| Animal free | No |
| Nature | Recombinant |
| Predicted molecular weight | 33 kDa |
| Additional sequence information | Recombinant protein TAG-free |

Specifications

Our [Abpromise guarantee](#) covers the use of **ab233724** in the following tested applications.

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

| | |
|---------------------|---|
| Applications | Western blot Functional Studies SDS-PAGE ELISA |
| Form | Liquid |

Preparation and Storage

| | |
|------------------------------|--|
| Stability and Storage | Shipped at 4°C. Store at -80°C. Constituents: PBS, 20% Glycerol (glycerin, glycerine) |
|------------------------------|--|

This product is an active protein and may elicit a biological response in vivo, handle with caution.

General Info

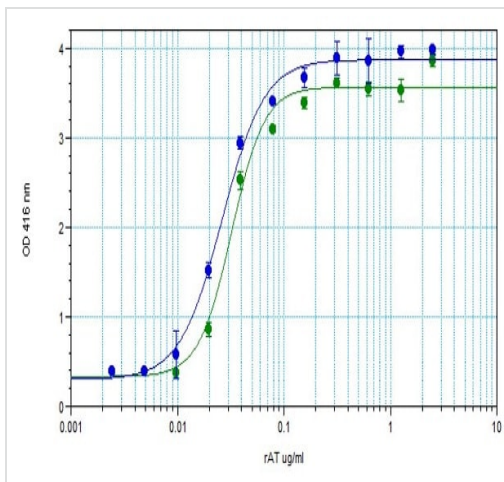
Relevance

Staphylococcus aureus alpha Hemolysin binds to the membrane of eukaryotic cells resulting in the release of low-molecular weight molecules and leading to an eventual osmotic lysis. The toxin self-assembles to form first, a nonlytic oligomeric intermediate, and then, a mushroom-shaped homoheptamer structure. Heptamer oligomerization and pore formation is required for lytic activity.

Cellular localization

Secreted

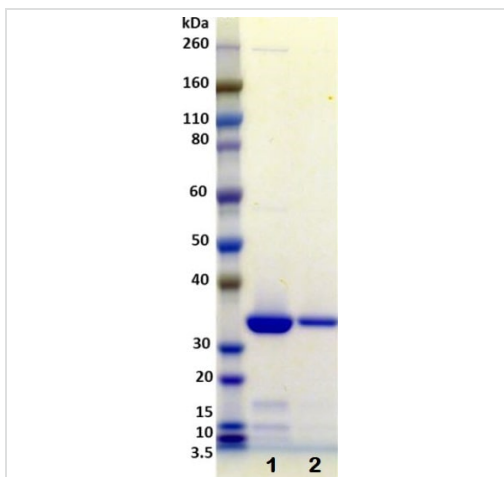
Images



Lysis of rabbit red blood cells by *S. aureus* Hla.

Red blood cell lysis was determined by absorbance at OD 416 nm after 30 min incubation at 37°C with Hla.

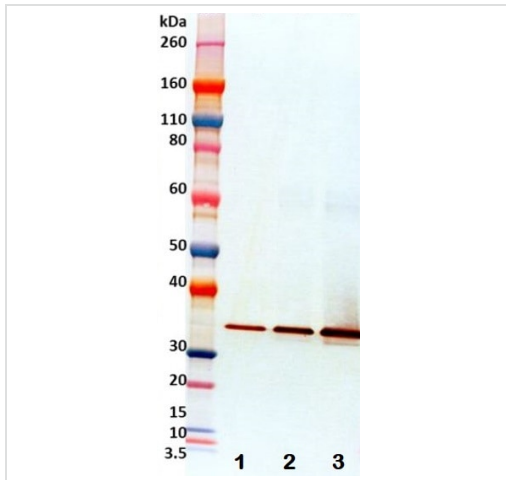
Functional Studies - Recombinant *Staphylococcus* alpha Hemolysin protein (Active) (ab233724)



Lane 1: 5 ug.

Lane 2: 1 ug.

SDS-PAGE - Recombinant *Staphylococcus* alpha Hemolysin protein (Active) (ab233724)



Western blot - Recombinant Staphylococcus alpha Hemolysin protein (Active) (ab233724)

All lanes : Mouse anti-Alpha Toxin (6C12) monoclonal antibody at 1 µg/ml

Lane 1 : Recombinant Staphylococcus alpha Hemolysin protein (Active) (ab233724) at 0.005 µg

Lane 2 : Recombinant Staphylococcus alpha Hemolysin protein (Active) (ab233724) at 0.01 µg

Lane 3 : Recombinant Staphylococcus alpha Hemolysin protein (Active) (ab233724) at 0.05 µg

Secondary

All lanes : Anti-mouse IgG-HRP conjugate

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