

Product datasheet

Anti-Serglycin antibody ab156991

1 Image

Overview

<b>Product name</b>	Anti-Serglycin antibody
<b>Description</b>	Rabbit polyclonal to Serglycin
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> WB
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse <b>Predicted to work with:</b> Rat 
<b>Immunogen</b>	Synthetic peptide corresponding to Rat Serglycin aa 1-100 conjugated to keyhole limpet haemocyanin. Database link: <a href="#">P04917</a>
<b>Positive control</b>	This antibody gave a positive signal in the following Mouse tissue lysates: White Adipose Tissue from Subcutaneous & Visceral Fat - Fasted; White Adipose Tissue from Gonad - High Fat Diet (Male); White Adipose Tissue from Gonad - High Fat Diet (Female).

Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	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.
<b>Storage buffer</b>	pH: 7.40 Preservative: 0.02% Sodium azide Constituent: PBS  Batches of this product that have a concentration < 1mg/ml may have BSA added as a stabilising agent. If you would like information about the formulation of a specific lot, please contact our scientific support team who will be happy to help.
<b>Purity</b>	Immunogen affinity purified
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab156991** 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		Use a concentration of 1 µg/ml. Detects a band of approximately 18 kDa (predicted molecular weight: 18 kDa).

## Target

### Function

Plays a role in formation of mast cell secretory granules and mediates storage of various compounds in secretory vesicles. Required for storage of some proteases in both connective tissue and mucosal mast cells and for storage of granzyme B in T lymphocytes. Plays a role in localizing neutrophil elastase in azurophil granules of neutrophils. Mediates processing of MMP2. Plays a role in cytotoxic cell granule-mediated apoptosis by forming a complex with granzyme B which is delivered to cells by perforin to induce apoptosis. Regulates the secretion of TNF-alpha and may also regulate protease secretion. Inhibits bone mineralization.

### Sequence similarities

Belongs to the serglycin family.

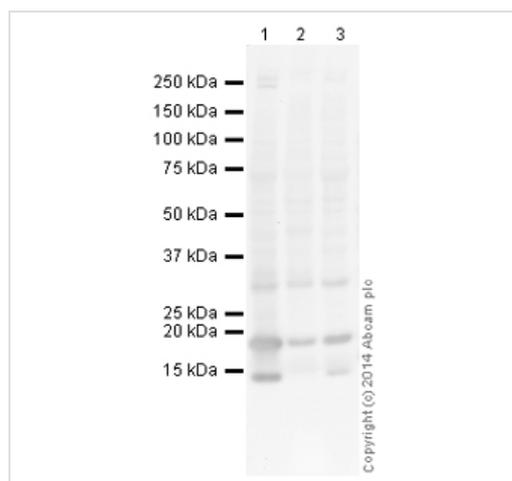
### Post-translational modifications

O-glycosylated; contains chondroitin sulfate and heparan sulfate.

### Cellular localization

Cytoplasmic granule. Secreted > extracellular space. Golgi apparatus. Found in mast cell granules and in cytoplasmic granules of cytolytic T lymphocytes from where it is secreted upon cell activation. Secreted constitutively by endothelial cells and macrophages. Located to Golgi apparatus during neutrophil differentiation.

## Images



Western blot - Anti-Serglycin antibody (ab156991)

**All lanes** : Anti-Serglycin antibody (ab156991) at 1 µg/ml

**Lane 1** : Mouse WAT (White Adipose Tissue) (Fasted) Tissue Lysate

**Lane 2** : Mouse (Male) WAT from Gonad (High Fat Diet) Tissue Lysate

**Lane 3** : Mouse (Female) WAT from Gonad (High Fat Diet) Tissue Lysate

Lysates/proteins at 10 µg per lane.

### Secondary

**All lanes** : Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/50000 dilution

Developed using the ECL technique.

Performed under reducing conditions.

**Predicted band size:** 18 kDa

**Observed band size:** 18 kDa

**Additional bands at:** 14 kDa (possible non-specific binding), 30 kDa (possible non-specific binding)

**Exposure time:** 8 minutes

This blot was produced using a 4-12% Bis-tris gel under the MES buffer system. The gel was run at 200V for 35 minutes before being transferred onto a Nitrocellulose membrane at 30V for 70 minutes. The membrane was then blocked for an hour using 2% Bovine Serum Albumin before being incubated with ab156991 overnight at 4°C. Antibody binding was detected using an anti-rabbit antibody conjugated to HRP, and visualised using ECL development solution.

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

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