

## Product datasheet

# Anti-Granzyme B antibody ab53097

★★★★★ [5 Abreviews](#) [8 References](#) [2 Images](#)

### Overview

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<b>Product name</b>	Anti-Granzyme B antibody
<b>Description</b>	Rabbit polyclonal to Granzyme B
<b>Host species</b>	Rabbit
<b>Specificity</b>	Detects endogenous levels of total Granzyme B protein. Due to sequence homology this antibody is predicted to cross-react with granzyme H.
<b>Tested applications</b>	<b>Suitable for:</b> WB, IHC-P
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse, Human
<b>Immunogen</b>	Synthetic peptide (Human)
<b>General notes</b>	<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&amp;As</p>

### Properties

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<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.
<b>Storage buffer</b>	pH: 7.40 Preservative: 0.02% Sodium azide Constituents: 50% Glycerol (glycerin, glycerine), 0.87% Sodium chloride, PBS
<b>Purity</b>	Without Mg+2 and Ca+2 Immunogen affinity purified
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

### Applications

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## The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab53097 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		1/300 - 1/1000. Detects a band of approximately 28 kDa (predicted molecular weight: 28 kDa).
IHC-P	★★★★★ (3)	Use a concentration of 50 - 100 µg/ml.

## Target

### Function

This enzyme is necessary for target cell lysis in cell-mediated immune responses. It cleaves after Asp. Seems to be linked to an activation cascade of caspases (aspartate-specific cysteine proteases) responsible for apoptosis execution. Cleaves caspase-3, -7, -9 and 10 to give rise to active enzymes mediating apoptosis.

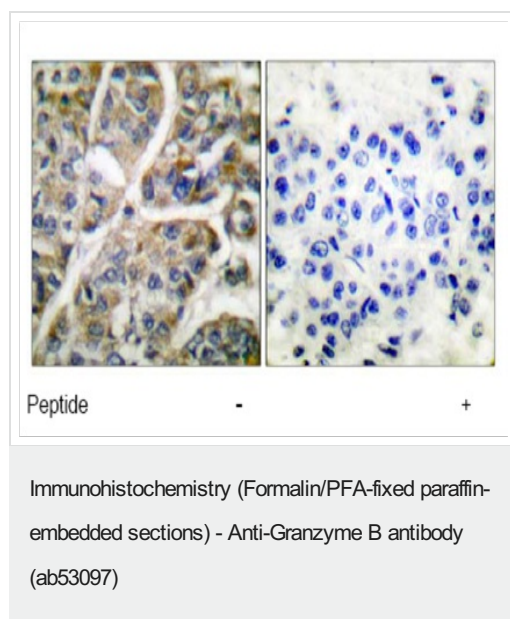
### Sequence similarities

Belongs to the peptidase S1 family. Granzyme subfamily.  
Contains 1 peptidase S1 domain.

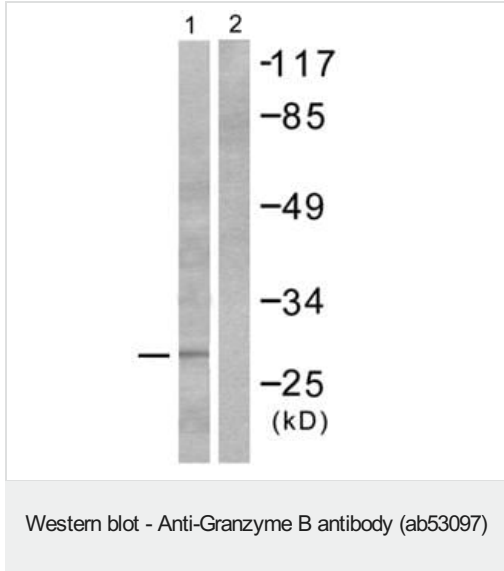
### Cellular localization

Cytoplasmic granule. Cytoplasmic granules of cytolytic T-lymphocytes and natural killer cells.

## Images



ab53097 (1/50) staining Granzyme B in paraffin-embedded human breast carcinoma tissue. Right-hand panel represents a negative control for which ab53097 was pre-incubated with the immunizing peptide.



**All lanes :** Anti-Granzyme B antibody (ab53097) at 1/300 dilution

**Lane 1 :** NIH/3T3 cell extract

**Lane 2 :** NIH/3T3 cell extract with immunizing peptide

**Predicted band size:** 28 kDa

**Observed band size:** 28 kDa

**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

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- 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
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