

## Product datasheet

# Anti-Granzyme B antibody [EPR8260] - Low endotoxin, Azide free ab214443

Recombinant RabMAb

[1 References](#) [4 Images](#)

### Overview

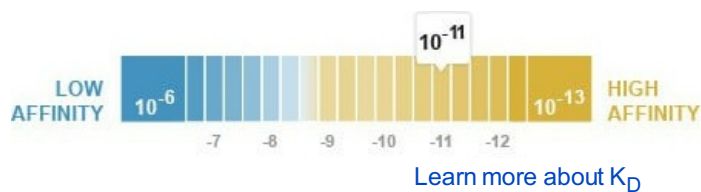
<b>Product name</b>	Anti-Granzyme B antibody [EPR8260] - Low endotoxin, Azide free
<b>Description</b>	Rabbit monoclonal [EPR8260] to Granzyme B - Low endotoxin, Azide free
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> IHC-P
<b>Species reactivity</b>	<b>Reacts with:</b> Human
<b>Immunogen</b>	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
<b>Positive control</b>	IHC-P: Human Hodgkins lymphoma and Human tonsil tissues
<b>General notes</b>	<p>ab214443 is the carrier-free version of <a href="#">ab134933</a>.</p> <p>Our <a href="#">carrier-free</a> antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency.</p> <p>This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications.</p> <p>Use our <a href="#">conjugation kits</a> for antibody conjugates that are ready-to-use in as little as 20 minutes with &lt;1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.</p> <p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> <li>- High batch-to-batch consistency and reproducibility</li> <li>- Improved sensitivity and specificity</li> <li>- Long-term security of supply</li> <li>- Animal-free production</li> </ul> <p>For more information <a href="#">see here</a>.</p> <p>Our RabMAb<sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <a href="#">RabMAb<sup>®</sup> patents</a>.</p> <p>Our <a href="#">Low endotoxin, azide-free formats</a> have low endotoxin level (<math>\leq 1</math> EU/ml, determined by the LAL assay) and are free from azide, to achieve consistent experimental results in functional assays.</p>

We are constantly working hard to ensure we provide our customers with best in class antibodies. As a result of this work we are pleased to now offer this antibody in purified format. We are in the process of updating our datasheets. The purified format is designated 'PUR' on our product labels. If you have any questions regarding this update, please contact our Scientific Support team.

Mouse, Rat: We have preliminary internal testing data to indicate this antibody may not react with these species. Please contact us for more information.

## Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C. Do Not Freeze.
<b>Dissociation constant (K<sub>D</sub>)</b>	K <sub>D</sub> = 7.80 x 10 <sup>-11</sup> M



<b>Storage buffer</b>	pH: 7.2 Constituent: PBS
<b>Carrier free</b>	Yes
<b>Purity</b>	Protein A purified
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	EPR8260
<b>Isotype</b>	IgG

## Applications

**The Abpromise guarantee** Our [Abpromise guarantee](#) covers the use of ab214443 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
IHC-P		Use at an assay dependent concentration. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol. For antigen retrieval: heat up to 98 degrees C, below boiling, and then let cool for 10-20 min. Use of an HRP/AP polymerized secondary antibody is recommended. <a href="#">See IHC antigen retrieval protocols.</a>

## 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.

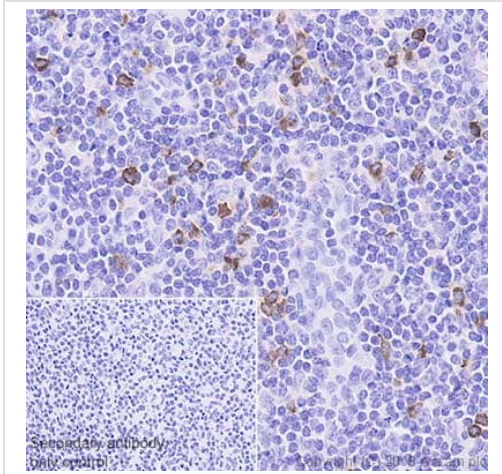
### Sequence similarities

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

### Cellular localization

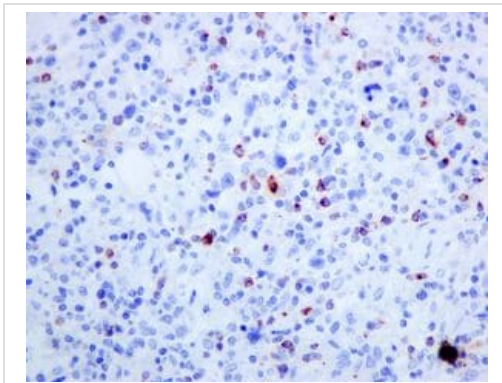
Cytoplasmic granule. Cytoplasmic granules of cytolytic T-lymphocytes and natural killer cells.

## Images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Granzyme B antibody [EPR8260] - Low endotoxin, Azide free (ab214443)

This image was made using [ab134933](#) which is the same antibody as ab214443 with BSA and Azide  
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of Human tonsil tissue sections labeling Granzyme B with Purified [ab134933](#) at 1:250 dilution (2.96 µg/ml). Heat mediated antigen retrieval was performed using [ab93684](#) (Tris/EDTA buffer, pH 9.0). ImmunoHistoProbe one step HRP Polymer (ready to use) was used as the secondary antibody. Negative control: PBS instead of the primary antibody. Hematoxylin was used as a counterstain.

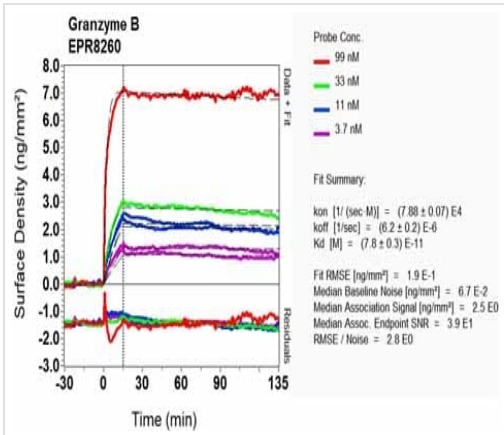


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Granzyme B antibody [EPR8260] - Low endotoxin, Azide free (ab214443)

This IHC data was generated using the same anti-Granzyme B antibody clone, EPR8260, in a different buffer formulation (cat# [ab134933](#)).

Immunohistochemical analysis of paraffin-embedded, formalin-fixed Human Hodgkin's lymphoma tissue, labelling Granzyme B using unpurified [ab134933](#) at a 1/100 dilution.

Heat mediated antigen retrieval was performed with citrate buffer pH 6 before commencing with IHC staining protocol.



Equilibrium dissociation constant ( $K_D$ )

Learn more about  $K_D$

[Click here to learn more about  \$K\_D\$](#)

OI-RD Scanning - Anti-Granzyme B antibody  
 [EPR8260] - Low endotoxin, Azide free (ab214443)

Why choose  $\alpha$  recombinant antibody?

**Research with confidence**  
 Consistent and reproducible results

**Long-term and scalable supply**  
 Recombinant technology

**Success from the first experiment**  
 Confirmed specificity

**Ethical standards compliant**  
 Animal-free production

Anti-Granzyme B antibody [EPR8260] - Low endotoxin, Azide free (ab214443)

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

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