

# Anti-GST3 / GST pi antibody [EPR8263] - BSA and Azide free ab245762

**KO VALIDATED** Recombinant RabMAB

9 Images

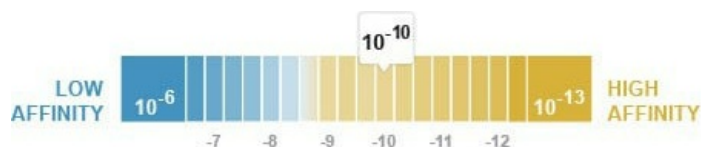
### Overview

|                            |   |
|----------------------------|---|
| <b>Product name</b>        | Anti-GST3 / GST pi antibody [EPR8263] - BSA and Azide free  |
| <b>Description</b>         | Rabbit monoclonal [EPR8263] to GST3 / GST pi - BSA and Azide free   |
| <b>Host species</b>        | Rabbit  |
| <b>Tested applications</b> | <b>Suitable for:</b> Flow Cyt (Intra), ICC/IF, IHC-P, WB<br><b>Unsuitable for:</b> IP   |
| <b>Species reactivity</b>  | <b>Reacts with:</b> Mouse, Rat, Human   |
| <b>Immunogen</b>           | Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.   |
| <b>Positive control</b>    | WB: HAP1, Jurkat, and HEK293 cell lysates; ICC/IF: K562 cells; Flow Cyt (intra): Jurkat; IHC-P: Rat and mouse stomach, and human tonsil tissue sections; WB: K-562 whole cell lysate, mouse and rat brain lysates.  |
| <b>General notes</b>       | <p>ab245762 is the carrier-free version of <a href="#">ab138491</a>.</p> <p>Our <b>carrier-free</b> 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 <b>conjugation kits</b> 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 compatible with the Maxpar<sup>®</sup> Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar<sup>®</sup> is a trademark of Fluidigm Canada Inc.</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</p> |

monoclonal antibodies. For details on our patents, please refer to [RabMAb® patents](#).

## 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> = 1.00 x 10 <sup>-10</sup> M   |



[Learn more about K<sub>D</sub>](#)

|                       |                             |
|-----------------------|-----------------------------|
| <b>Storage buffer</b> | pH: 7.2<br>Constituent: PBS |
| <b>Carrier free</b>   | Yes                         |
| <b>Purity</b>         | Protein A purified          |
| <b>Clonality</b>      | Monoclonal                  |
| <b>Clone number</b>   | EPR8263                     |
| <b>Isotype</b>        | IgG                         |

## Applications

**The Abpromise guarantee** Our [Abpromise guarantee](#) covers the use of ab245762 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   |
|------------------|-----------|---|
| Flow Cyt (Intra) |           | Use at an assay dependent concentration.  |
| ICC/IF           |           | Use at an assay dependent concentration.  |
| IHC-P            |           | Use at an assay dependent concentration. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol. |
| WB               |           | Use at an assay dependent concentration. Predicted molecular weight: 23 kDa.  |

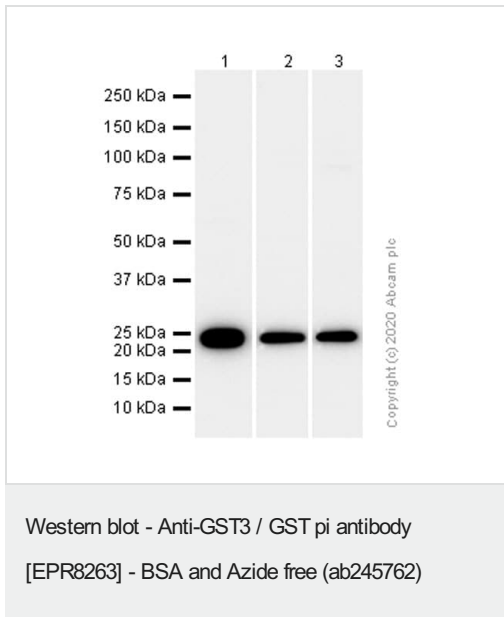
**Application notes** Is unsuitable for IP.

## Target

|                              |  |
|------------------------------|--|
| <b>Function</b>              | Conjugation of reduced glutathione to a wide number of exogenous and endogenous hydrophobic electrophiles. |
| <b>Sequence similarities</b> | Belongs to the GST superfamily. Pi family.   |

Contains 1 GST C-terminal domain.  
Contains 1 GST N-terminal domain.

## Images



**All lanes :** Anti-GST3 / GST pi antibody [EPR8263] ([ab138491](#)) at 1/1000 dilution (Purified)

**Lane 1 :** K-562 (Human chronic myelogenous leukemia lymphoblast) whole cell lysate

**Lane 2 :** Mouse brain lysate

**Lane 3 :** Rat brain lysate

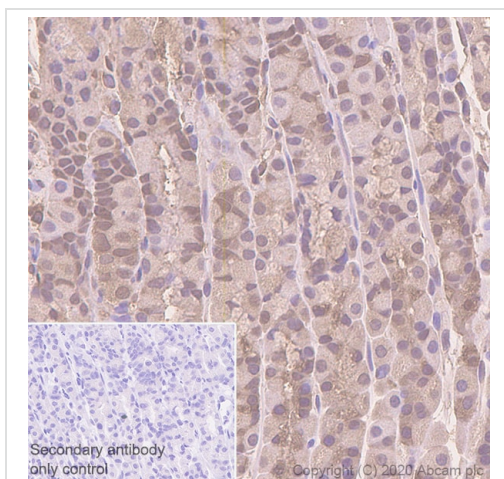
Lysates/proteins at 15 µg per lane.

### Secondary

**All lanes :** Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/20000 dilution

**Predicted band size:** 23 kDa

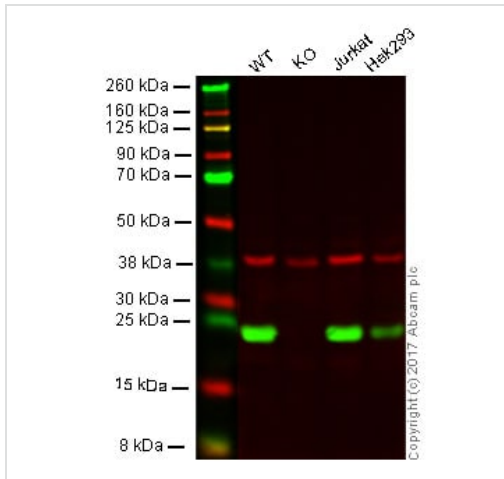
This data was developed using [ab138491](#), the same antibody clone in a different buffer formulation.



This data was developed using [ab138491](#), the same antibody clone in a different buffer formulation.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of rat stomach tissue sections labeling GST3 / GST pi with Purified [ab138491](#) at 1/100 dilution (0.99 µg/mL). Heat mediated antigen retrieval using Bond™ Epitope Retrieval Solution 1 (pH 6.0). Rabbit specific IHC polymer detection kit HRP/DAB ([ab209101](#)) 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-GST3 / GST pi antibody [EPR8263] - BSA and Azide free (ab245762)



Western blot - Anti-GST3 / GST pi antibody [EPR8263] - BSA and Azide free (ab245762)

**Lane 1:** Wild type HAP1 whole cell lysate (20 µg)

**Lane 2:** GST3 knockout HAP1 whole cell lysate (20 µg)

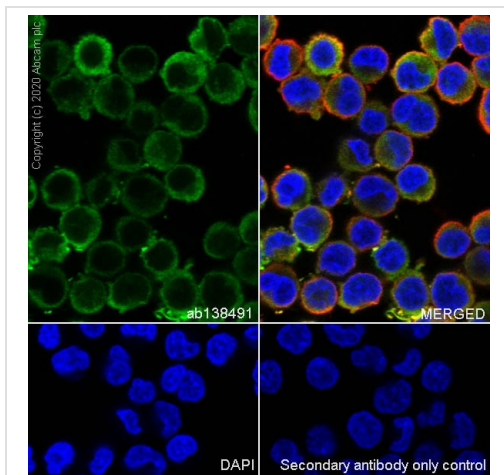
**Lane 3:** Jurkat whole cell lysate (20 µg)

**Lane 4:** Hek293 whole cell lysate (20 µg)

**Lanes 1 - 4:** Merged signal (red and green). Green - **ab138491** observed at 23 kDa. Red - loading control, **ab9484**, observed at 37 kDa.

**ab138491** was shown to specifically react with GST3 when GST3 knockout samples were used. Wild-type and GST3 knockout samples were subjected to SDS-PAGE. Ab138491 and **ab9484** (Mouse anti GAPDH loading control) were incubated overnight at 4°C at 1000 dilution and 1/10001 dilution respectively. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preabsorbed **ab216773** and Goat anti-Mouse IgG H&L (IRDye® 680RD) preabsorbed **ab216776** secondary antibodies at 1/10000 dilution for 1 hour at room temperature before imaging.

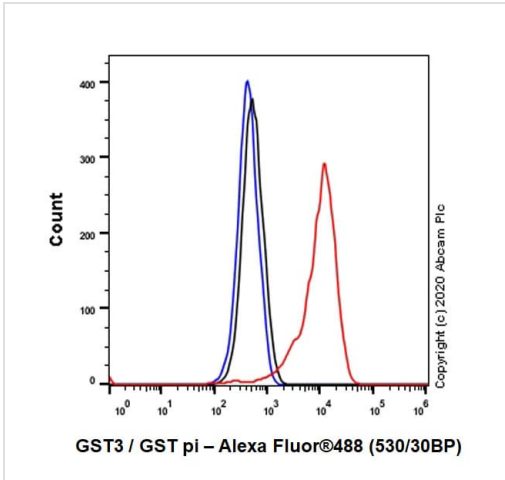
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA glycerol and sodium azide (**ab138491**).



Immunocytochemistry/ Immunofluorescence - Anti-GST3 / GST pi antibody [EPR8263] - BSA and Azide free (ab245762)

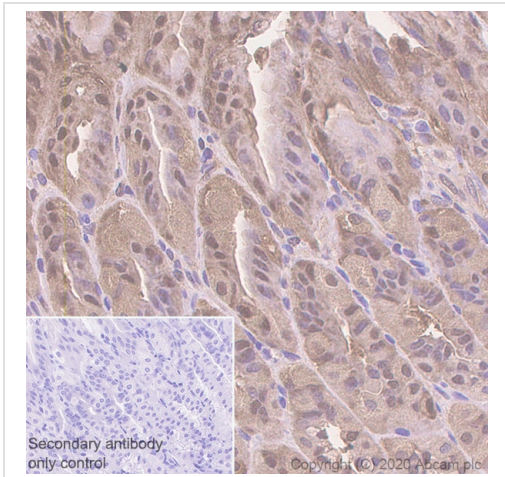
This data was developed using **ab138491**, the same antibody clone in a different buffer formulation.

Immunocytochemistry analysis of K-562 (Human chronic myelogenous leukemia lymphoblast) cells labeling GST3 / GST pi with Purified **ab138491** at 1/50 dilution (1.98 µg/mL). Cells were fixed in 4% Paraformaldehyde and permeabilized with 0.1% tritonX-100. Cells were counterstained with Ab195889 Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594) 1/200 dilution (2.5 µg/mL). Goat anti rabbit IgG (Alexa Fluor® 488, **ab150077**) was used as the secondary antibody at 1/1000 dilution (2 µg/mL). DAPI (blue) was used as nuclear counterstain. PBS instead of the primary antibody was used as the secondary antibody only control.



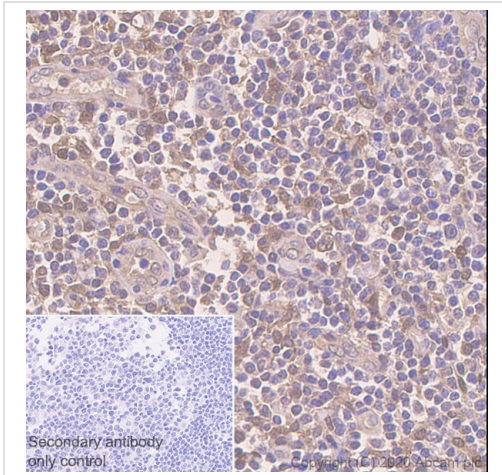
Flow Cytometry (Intracellular) - Anti-GST3 / GST pi antibody [EPR8263] - BSA and Azide free (ab245762)

This data was developed using [ab138491](#), the same antibody clone in a different buffer formulation. Intracellular Flow Cytometry analysis of Jurkat (Human T cell leukemia T lymphocyte) cells labeling GST3 / GST pi with Purified [ab138491](#) at 1/20 dilution (10 µg/mL) (Red). Cells were fixed with 4% Paraformaldehyde and permeabilised with 90% Methanol. A Goat anti rabbit IgG (Alexa Fluor® 488, [ab150077](#)) secondary antibody was used at 1/2000. Isotype control - Rabbit monoclonal IgG (Black). Unlabeled control - Cell without incubation with primary antibody and secondary antibody (Blue).



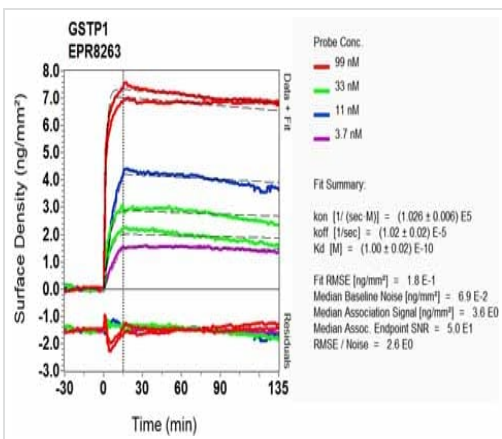
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-GST3 / GST pi antibody [EPR8263] - BSA and Azide free (ab245762)

This data was developed using [ab138491](#), the same antibody clone in a different buffer formulation. Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of mouse stomach tissue sections labeling GST3 / GST pi with Purified [ab138491](#) at 1/100 dilution (0.99 µg/mL). Heat mediated antigen retrieval using Bond™ Epitope Retrieval Solution 1 (pH 6.0). Rabbit specific IHC polymer detection kit HRP/DAB ([ab209101](#)) 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-GST3 / GST pi antibody [EPR8263] - BSA and Azide free (ab245762)

This data was developed using **ab138491**, the same antibody clone in a different buffer formulation. Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human tonsil tissue sections labeling GST3 / GST pi with Purified **ab138491** at 1/100 dilution (0.99 µg/mL). Heat mediated antigen retrieval using Bond™ Epitope Retrieval Solution 1 (pH 6.0). Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**) was used as the secondary antibody. Negative control: PBS instead of the primary antibody. Hematoxylin was used as a counterstain.



Oxide Reduction Scanning - Anti-GST3 / GST pi antibody [EPR8263] - BSA and Azide free (ab245762)

Equilibrium disassociation constant ( $K_D$ )

Learn more about  $K_D$

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

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA glycerol and sodium azide (**ab138491**).

### Why choose a 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-GST3 / GST pi antibody [EPR8263] - BSA and Azide free (ab245762)

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

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