


Product datasheet

Anti-GST3 / GST pi antibody ab117885

KO VALIDATED

★★★★☆ 1 Abreviews 4 Images

Overview

Product name	Anti-GST3 / GST pi antibody
Description	Rabbit polyclonal to GST3 / GST pi
Host species	Rabbit
Tested applications	Suitable for: IHC-P, ICC/IF, WB
Species reactivity	Reacts with: Human Predicted to work with: Horse, Chimpanzee, Macaque monkey, Gorilla, Orangutan 
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	This antibody gave a positive signal in both Human Prostate and Kidney tissue lysates as well as the following whole cell lysates: PC3; HeLa; HEK293; Jurkat; K562. This antibody gave a positive result in IHC in the following FFPE tissue: Human normal prostate. This antibody gave a positive result when used in the following formaldehyde fixed cell lines: MCF-7
General notes	<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&As</p>

Properties

Form	Liquid
Storage instructions	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.
Storage buffer	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.

Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab117885 in the following tested applications.

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

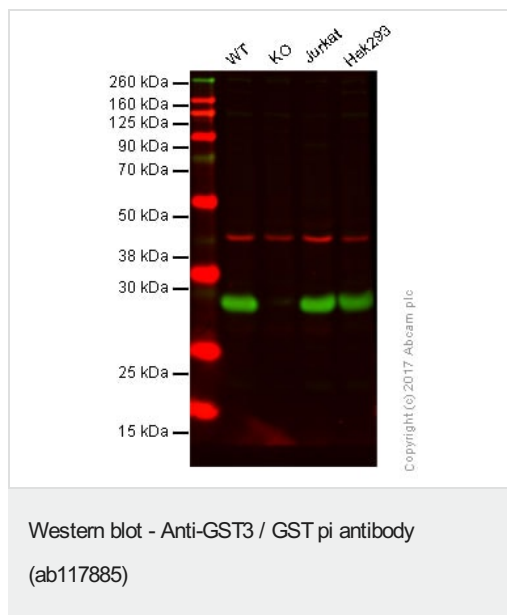
Application	Abreviews	Notes
IHC-P		Use a concentration of 1 µg/ml.
ICC/IF	★★★★★ (1)	Use a concentration of 5 µg/ml.
WB		Use a concentration of 1 µg/ml. Detects a band of approximately 23 kDa (predicted molecular weight: 23 kDa).

Target

Function Conjugation of reduced glutathione to a wide number of exogenous and endogenous hydrophobic electrophiles.

Sequence similarities Belongs to the GST superfamily. Pi family.
Contains 1 GST C-terminal domain.
Contains 1 GST N-terminal domain.

Images



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

Lane 2: GST3 / GST pi knockout HAP1 whole cell lysate (20 µg)

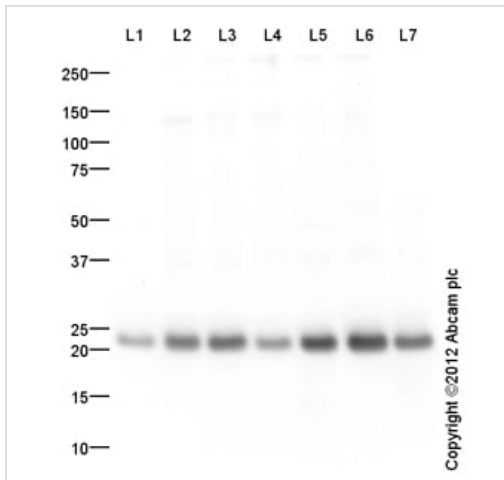
Lane 3: Jurkat whole cell lysate (20 µg)

Lane 4: Hek293 whole cell lysate (20 µg)

Lanes 1 - 4: Merged signal (red and green). Green - ab117885 observed at 23 kDa. Red - loading control, **ab9484**, observed at 37 kDa.

ab117885 was shown to specifically react with GST3 / GST pi in wild-type HAP1 cells as signal was lost in GST3 / GST pi knockout cells. Wild-type and GST3 / GST pi knockout samples were subjected to SDS-PAGE. ab117885 and **ab9484** (Mouse anti-GAPDH loading control) were incubated overnight at 4°C at 1 µg/ml and 1/10,000 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 1/10,000 dilution for 1 hour at room temperature before imaging.



Western blot - Anti-GST3 / GST pi antibody
([ab117885](#))

All lanes : Anti-GST3 / GST pi antibody ([ab117885](#)) at 1 µg/ml

Lane 1 : Human prostate tissue lysate (cirrhosis) - total protein ([ab30307](#))

Lane 2 : PC3 (Human prostate carcinoma cell line) Whole Cell Lysate

Lane 3 : HeLa (Human epithelial carcinoma cell line) Whole Cell Lysate

Lane 4 : HEK293 (Human embryonic kidney cell line) Whole Cell Lysate

Lane 5 : Jurkat (Human T cell lymphoblast-like cell line) Whole Cell Lysate

Lane 6 : K562 (Human erythromyeloblastoid leukemia cell line) Whole Cell Lysate

Lane 7 : Human kidney tissue lysate - total protein ([ab30203](#))

Lysates/proteins at 10 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) preadsorbed ([ab97080](#)) at 1/5000 dilution

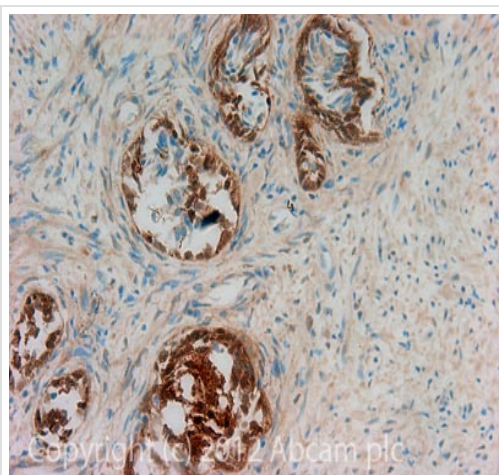
Developed using the ECL technique.

Performed under reducing conditions.

Predicted band size: 23 kDa

Observed band size: 23 kDa

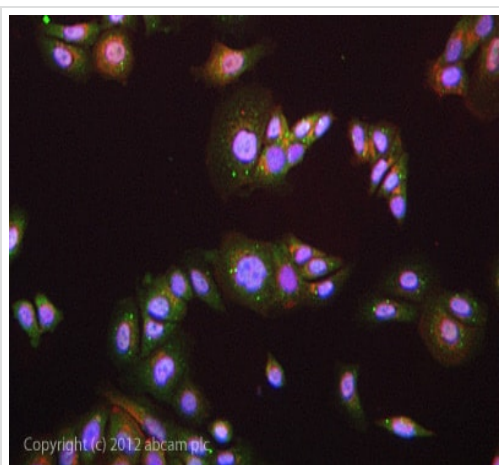
Exposure time: 30 seconds



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-GST3 / GST pi antibody (ab117885)

IHC image of GST3 / GST pi staining in Human normal prostate formalin fixed paraffin embedded tissue section, performed on a Leica Bond™ system using the standard protocol F. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH6, epitope retrieval solution 1) for 20 mins. The section was then incubated with ab117885, 1µg/ml, for 15 mins at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

For other IHC staining systems (automated and non-automated) customers should optimize variable parameters such as antigen retrieval conditions, primary antibody concentration and antibody incubation times.



Immunocytochemistry/ Immunofluorescence - Anti-GST3 / GST pi antibody (ab117885)

ab117885 stained MCF-7 cells. The cells were 4% formaldehyde fixed (10 min) and then incubated in 1%BSA / 10% normal goat serum / 0.3M glycine in 0.1% PBS-Tween for 1h to permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody ab117885 at 5µg/ml overnight at +4°C. The secondary antibody (green) was DyLight® 488 goat anti- rabbit ([ab96899](#)) IgG (H+L) used at a 1/1000 dilution for 1h. Alexa Fluor® 594 WGA was used to label plasma membranes (red) at a 1/200 dilution for 1h. DAPI was used to stain the cell nuclei (blue) at a concentration of 1.43µM.

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

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