


Product datasheet

Anti-glutathione S transferase Omega 1/p28 antibody [EPR8370(B)] - BSA and Azide free ab248304

KO VALIDATED Recombinant RabMAB

4 Images

Overview

Product name	Anti-glutathione S transferase Omega 1/p28 antibody [EPR8370(B)] - BSA and Azide free
Description	Rabbit monoclonal [EPR8370(B)] to glutathione S transferase Omega 1/p28 - BSA and Azide free
Host species	Rabbit
Tested applications	Suitable for: IHC-P, WB Unsuitable for: Flow Cyt or IP
Species reactivity	Reacts with: Human Predicted to work with: Rat 
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: HEK293T, Jurkat, HepG2 and BxPC-3 cell lysates; Human fetal liver lysate. IHC-P: Human colon tissue.
General notes	<p>ab248304 is the carrier-free version of ab129106.</p> <p>Our carrier-free 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 conjugation kits for antibody conjugates that are ready-to-use in as little as 20 minutes with <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[®] Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar[®] 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"> - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production

For more information [see here](#).

Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to [RabMAb[®] patents](#).

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

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C. Do Not Freeze.
Storage buffer	pH: 7.2 Constituent: PBS
Carrier free	Yes
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR8370(B)
Isotype	IgG

Applications

The Abpromise guarantee Our [Abpromise guarantee](#) covers the use of ab248304 in the following tested applications.

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

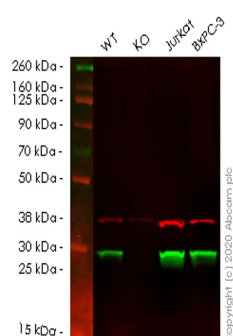
Application	Abreviews	Notes
IHC-P		Use at an assay dependent concentration. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.
WB		Use at an assay dependent concentration. Detects a band of approximately 31 kDa (predicted molecular weight: 28 kDa).

Application notes Is unsuitable for Flow Cyt or IP.

Target

Function	Exhibits glutathione-dependent thiol transferase and dehydroascorbate reductase activities. Has S-(phenacyl)glutathione reductase activity. Has also glutathione S-transferase activity. Participates in the biotransformation of inorganic arsenic and reduces monomethylarsonic acid (MMA) and dimethylarsonic acid.
Tissue specificity	Ubiquitous. Highest expression in liver, pancreas, skeletal muscle, spleen, thymus, colon, blood leukocyte and heart. Lowest expression in brain, placenta and lung.
Sequence similarities	Belongs to the GST superfamily. Omega family. Contains 1 GST C-terminal domain. Contains 1 GST N-terminal domain.

Images



Western blot - Anti-glutathione S transferase Omega 1/p28 antibody [EPR8370(B)] - BSA and Azide free (ab248304)

All lanes : Anti-glutathione S transferase Omega 1/p28 antibody [EPR8370(B)] ([ab129106](#)) at 1/1000 dilution

Lane 1 : Wild-type HEK293T cell lysate

Lane 2 : GSTO1 knockout HEK293T cell lysate

Lane 3 : Jurkat cell lysate

Lane 4 : BxPC-3 cell lysate

Lysates/proteins at 20 µg per lane.

Secondary

All lanes : Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed ([ab216773](#)) at 1/10000 dilution

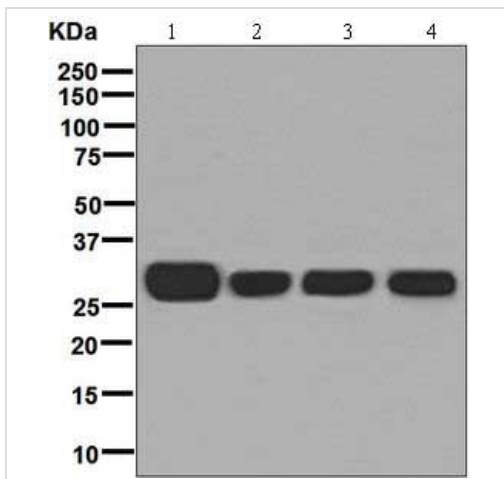
Predicted band size: 28 kDa

Observed band size: 28 kDa

This data was developed using [ab129106](#), the same antibody clone in a different buffer formulation.

Lanes 1-4: Merged signal (red and green). Green - [ab129106](#) observed at 28 kDa. Red - loading control [ab8245](#) observed at 36 kDa.

[ab129106](#) Anti-glutathione S transferase Omega 1/p28 antibody [EPR8370(B)] was shown to specifically react with glutathione S transferase Omega 1/p28 in wild-type HEK293T cells. Loss of signal was observed when knockout cell line [ab266277](#) (knockout cell lysate [ab257982](#)) was used. Wild-type and glutathione S transferase Omega 1/p28 knockout samples were subjected to SDS-PAGE. [ab129106](#) and Anti-GAPDH antibody [6C5] - Loading Control ([ab8245](#)) were incubated overnight at 4°C at 1 in 1000 dilution and 1 in 20000 dilution respectively. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed ([ab216773](#)) and Goat anti-Mouse IgG H&L (IRDye® 680RD) preadsorbed ([ab216776](#)) secondary antibodies at 1 in 20000 dilution for 1 hour at room temperature before imaging.



Western blot - Anti-glutathione S transferase Omega 1/p28 antibody [EPR8370(B)] - BSA and Azide free (ab248304)

All lanes : Anti-glutathione S transferase Omega 1/p28 antibody [EPR8370(B)] ([ab129106](#)) at 1/1000 dilution

Lane 1 : Human fetal liver lysate

Lane 2 : BxPC3 lysate

Lane 3 : HepG2 lysate

Lane 4 : HeLa lysate

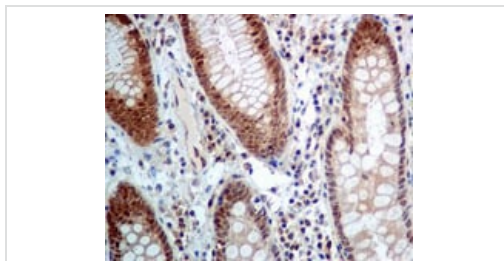
Lysates/proteins at 10 µg per lane.

Secondary

All lanes : Goat anti-Rabbit HRP at 1/2000 dilution

Predicted band size: 28 kDa

This data was developed using [ab129106](#), the same antibody clone in a different buffer formulation.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-glutathione S transferase Omega 1/p28 antibody [EPR8370(B)] - BSA and Azide free (ab248304)

This data was developed using [ab129106](#), the same antibody clone in a different buffer formulation. [ab129106](#), at 1/100 dilution, staining glutathione S transferase Omega 1/p28 in Paraffin-embedded Human colon tissue by Immunohistochemistry. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.

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-glutathione S transferase Omega 1/p28 antibody [EPR8370(B)] - BSA and Azide free (ab248304)

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

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