


Product datasheet

Anti-glutathione S transferase Omega 1/p28 antibody [EPR8370(B)] ab129106

KO VALIDATED Recombinant RabMAB

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

Overview

Product name	Anti-glutathione S transferase Omega 1/p28 antibody [EPR8370(B)]
Description	Rabbit monoclonal [EPR8370(B)] to glutathione S transferase Omega 1/p28
Host species	Rabbit
Tested applications	Suitable for: WB, IHC-P Unsuitable for: Flow Cyt or IP
Species reactivity	Reacts with: Human Predicted to work with: Rat 
Immunogen	Synthetic peptide within Human glutathione S transferase Omega 1/p28 aa 50-150. The exact sequence is proprietary.
Positive control	WB: Human fetal liver, HEK293T, Jurkat, BxPC3, HepG2 and HeLa lysates. IHC-P: Human colon tissue.
General notes	<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 <p>For more information see here.</p> <p>Our RabMAB[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAB[®] patents.</p> <p>Mouse: We have preliminary internal testing data to indicate this antibody may not react with this species. Please contact us for more information.</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.
Storage buffer	pH: 7.20 Preservative: 0.01% Sodium azide

Constituents: 9% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA, 50% Tissue culture supernatant

Purity Protein A purified
Clonality Monoclonal
Clone number EPR8370(B)
Isotype IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab129106 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		1/1000 - 1/10000. Detects a band of approximately 31 kDa (predicted molecular weight: 28 kDa).
IHC-P		1/100 - 1/250. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.

Application notes Is unsuitable for Flow Cyt or IP.

Target

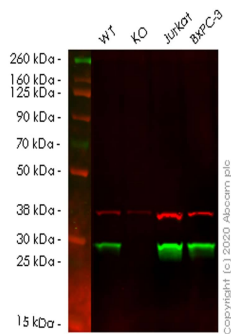
Function Exhibits glutathione-dependent thiol transferase and dehydroascorbate reductase activities. Has S-(phenacyl)glutathione reductase activity. Has also glutathione S-transferase activity. Participates in the biotransformation of inorganic arsenic and reduces monomethylarsonic acid (MMA) and dimethylarsonic 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.

Cellular localization Cytoplasm > cytosol.

Images



Western blot - Anti-glutathione S transferase Omega 1/p28 antibody [EPR8370(B)] (ab129106)

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

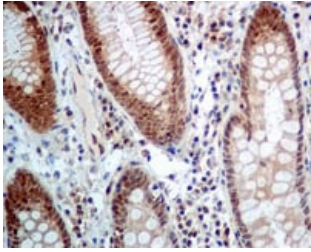
All lanes : Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed (**ab216773**) at 1/10000 dilution

Predicted band size: 28 kDa

Observed band size: 28 kDa

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

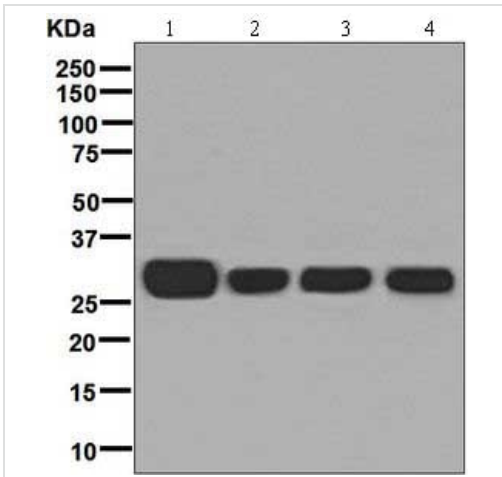
ab129106 Anti-glutathione S transferase Omega 1/p28 antibody [EPR8370(B)] was shown to specifically react with glutathione S transferase Omega 1/p28 in wild-type HEK293T cells. Loss of signal was observed when knockout cell line **ab266277** (knockout cell lysate **ab257982**) was used. Wild-type and 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.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-glutathione S transferase Omega 1/p28 antibody [EPR8370(B)] (ab129106)

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.



Western blot - Anti-glutathione S transferase Omega 1/p28 antibody [EPR8370(B)] (ab129106)

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

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)] (ab129106)

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

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