

Product datasheet

Anti-GSTK1 antibody [EP1938Y] ab52759

KO VALIDATED

Recombinant

RabMAb

[2 References](#) [6 Images](#)

Overview

Product name	Anti-GSTK1 antibody [EP1938Y]
Description	Rabbit monoclonal [EP1938Y] to GSTK1
Host species	Rabbit
Tested applications	Suitable for: ICC/IF, WB, IP, IHC-P Unsuitable for: Flow Cyt
Species reactivity	Reacts with: Human
Immunogen	Synthetic peptide within Human GSTK1 aa 150-250 (C terminal). The exact sequence is proprietary.
Positive control	WB: HEK293T, HeLa and Daudi cell lysates; Fetal liver lysate. IHC-P: Human liver tissue. ICC: A549 cells. IP: Human heart lysate.
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, Rat: We have preliminary internal testing data to indicate this antibody may not react with these 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: 0.05% Sodium azide Constituents: 0.1% BSA, 40% Glycerol (glycerin, glycerine), 9.85% Tris glycine, 50% Tissue culture supernatant
Purity	Protein A purified

Clonality	Monoclonal
Clone number	EP1938Y
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab52759 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

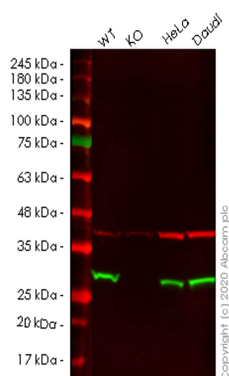
Application	Abreviews	Notes
ICC/IF		1/100 - 1/250.
WB		1/1000 - 1/10000. Detects a band of approximately 25 kDa (predicted molecular weight: 25 kDa).
IP		1/50.
IHC-P		Use at an assay dependent concentration. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

Application notes Is unsuitable for Flow Cyt.

Target

Function	Significant glutathione conjugating activity is found only with the model substrate, 1-chloro-2,4-dinitrobenzene (CDNB).
Tissue specificity	Ubiquitous.
Sequence similarities	Belongs to the GST superfamily. Kappa family.
Cellular localization	Peroxisome.

Images



Western blot - Anti-GSTK1 antibody [EP1938Y]
(ab52759)

All lanes : Anti-GSTK1 antibody [EP1938Y] (ab52759) at 1/1000 dilution

Lane 1 : Wild-type HEK293T cell lysate

Lane 2 : GSTK1 knockout HEK293T cell lysate

Lane 3 : HeLa cell lysate

Lane 4 : Daudi cell lysate

Lysates/proteins at 20 µg per lane.

Secondary

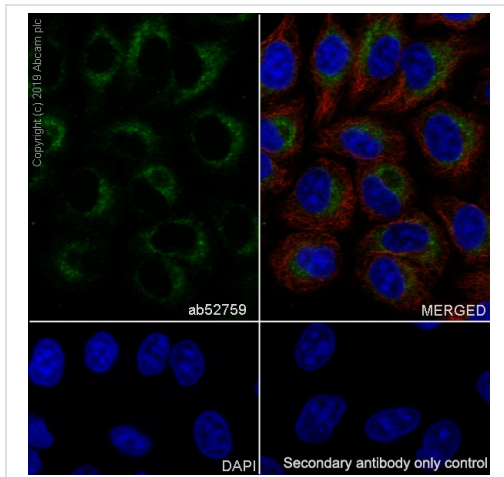
All lanes : Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed ([ab216773](#)) at 1/10000 dilution

Predicted band size: 25 kDa

Observed band size: 27 kDa

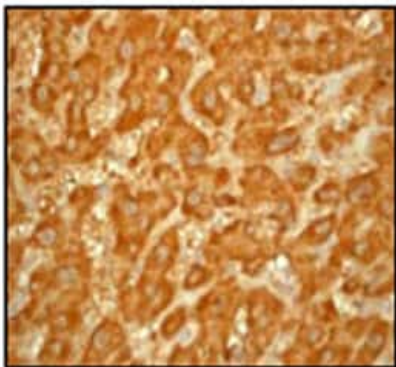
Lanes 1-4: Merged signal (red and green). Green - ab52759 observed at 27 kDa. Red - loading control [ab8245](#) observed at 36 kDa.

ab52759 Anti-GSTK1 antibody [EP1938Y] was shown to specifically react with GSTK1 in wild-type HEK293T cells. Loss of signal was observed when knockout cell line [ab266112](#) (knockout cell lysate [ab257461](#)) was used. Wild-type and GSTK1 knockout samples were subjected to SDS-PAGE. ab52759 and Anti-GAPDH antibody [6C5] - Loading Control ([ab8245](#)) were incubated at room temperature for 2.5 hours 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.



Immunocytochemistry/ Immunofluorescence - Anti-GSTK1 antibody [EP1938Y] (ab52759)

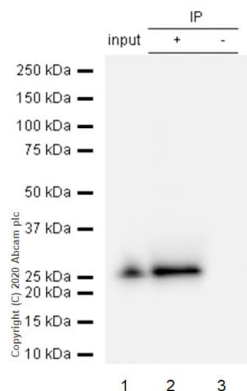
Immunocytochemistry analysis of A549 (human lung carcinoma epithelial cell) labeling GSTK1 with purified ab52759 at 1/100 dilution (10 µg/ml). Cells were fixed with 4% Paraformaldehyde and permeabilised with 0.1% tritonX-100. Goat anti rabbit IgG (Alexa Fluor® 488, [ab150077](#)) at 1/1000 (2 µg/ml) was used as the secondary antibody. [ab195889](#) Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594) 1/200 (2.13 µg/ml) was used as counterstain. Nuclei were stained blue with DAPI. Negative control: PBS instead of the primary antibody.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-GSTK1 antibody [EP1938Y] (ab52759)

Immunohistochemical staining of paraffin-embedded human liver using ab52759 at a 1:100 dilution.

Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Immunoprecipitation - Anti-GSTK1 antibody
[EP1938Y] (ab52759)

Purified ab52759 at 1/50 dilution (2µg) immunoprecipitating GSTK1 in Human heart lysate.

Lane 1 (input): Human heart lysate 10µg

Lane 2 (+): ab52759 + Human heart lysate.

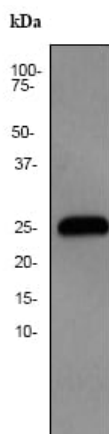
Lane 3 (-): Rabbit monoclonal IgG (**ab172730**) instead of ab52759 in Human heart lysate.

VeriBlot for IP Detection Reagent (HRP) (**ab131366**) (1/1000 dilution) was used for Western blotting.

Blocking Buffer and concentration: 5% NFDm/TBST.

Diluting buffer and concentration: 5% NFDm/TBST.

Observed band size: 25 kDa



Western blot - Anti-GSTK1 antibody [EP1938Y]
(ab52759)

Anti-GSTK1 antibody [EP1938Y] (ab52759) at 1/5000 dilution + Fetal liver lysate at 10 µg

Secondary

Goat anti-rabbit HRP labeled at 1/2000 dilution

Predicted band size: 25 kDa

Observed band size: 25 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-GSTK1 antibody [EP1938Y] (ab52759)

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

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.com/abpromise> or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors