abcam

Product datasheet

# Anti-GSTK1 antibody [EPR1939] ab134173

KO VALIDATED Recombinant RabMAb

1 References 7 Images

## Overview

| | |
|---|---|
| **Product name** | Anti-GSTK1 antibody [EPR1939] |
| **Description** | Rabbit monoclonal [EPR1939] to GSTK1 |
| **Host species** | Rabbit |
| **Tested applications** | **Suitable for:** Flow Cyt (Intra), IHC-P, WB, IP, ICC/IF |
| **Species reactivity** | **Reacts with:** Human |
| **Immunogen** | Synthetic peptide within Human GSTK1 aa 1-100. The exact sequence is proprietary. |
| **Positive control** | WB: Daudi, HeLa and HEK-293 cell lysates IHC-P Human kidney tissue ICC/IF: HEK-293 cells Flow Cyt (intra): HeLa Cells IP: HeLa cells |
| **General notes** | This product is a recombinant monoclonal antibody, which offers several advantages including:<br>- High batch-to-batch consistency and reproducibility<br>- Improved sensitivity and specificity<br>- Long-term security of supply<br>- Animal-free production<br>For more information **see here**.<br>Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to **RabMAb® patents**.<br>Mouse, Rat: We have preliminary internal testing data to indicate this antibody may not react with these species. Please contact us for more information. |

## Properties

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|---|---|
| **Form** | Liquid |
| **Storage instructions** | Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle. |
| **Storage buffer** | pH: 7.2<br>Preservative: 0.05% Sodium azide<br>Constituents: 0.05% BSA, 40% Glycerol (glycerin, glycerine), 59% PBS |
| **Purity** | Protein A purified |
| **Clonality** | Monoclonal |

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|---|---|
| **Clone number** | EPR1939 |
| **Isotype** | IgG |

## Applications

**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab134173 in the following tested applications.

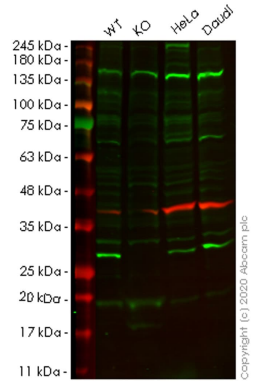
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

| Application | Abreviews | Notes |
|---|---|---|
| **Flow Cyt (Intra)** | | 1/30.<br>**ab172730** - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody. |
| **IHC-P** | | 1/300. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.<br>See **IHC antigen retrieval protocols**.<br>The immunostaining was performed on a Leica Biosystems BOND® RX instrument. |
| **WB** | | 1/1000. Predicted molecular weight: 25 kDa. |
| **IP** | | 1/30. |
| **ICC/IF** | | 1/50. |

## 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 [EPR1939] (ab134173)

**All lanes :** Anti-GSTK1 antibody [EPR1939] (ab134173) 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

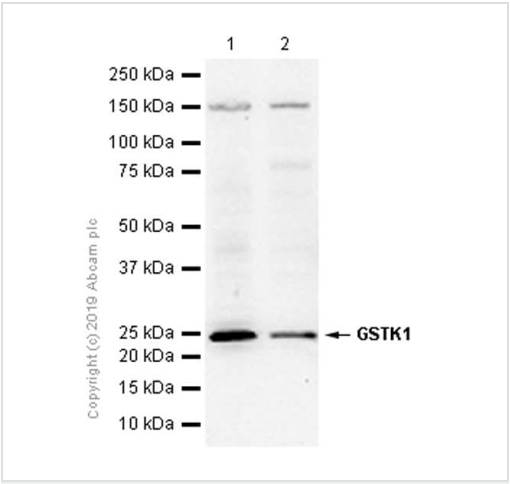
Lysates/proteins at 20 µg per lane.

**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 - ab134173 observed at 27 kDa. Red - loading control **ab8245** observed at 36 kDa.

ab134173 Anti-GSTK1 antibody [EPR1939] 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. ab134173 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.




Western blot - Anti-GSTK1 antibody [EPR1939] (ab134173)

**All lanes :** Anti-GSTK1 antibody [EPR1939] (ab134173) at 1/1000 dilution (Purified)

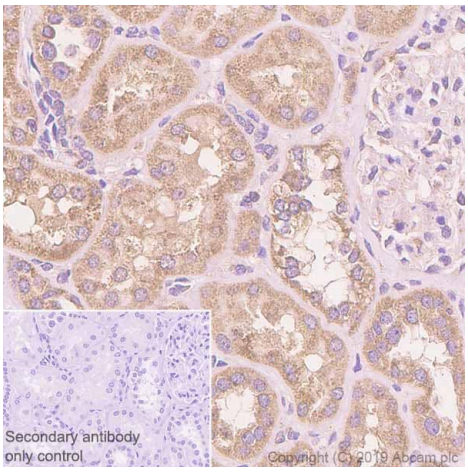
**Lane 1 :** HEK-293 (Human embryonic kidney epithelial cell) whole cell lysates
**Lane 2 :** HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysates

Lysates/proteins at 20 µg per lane.

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

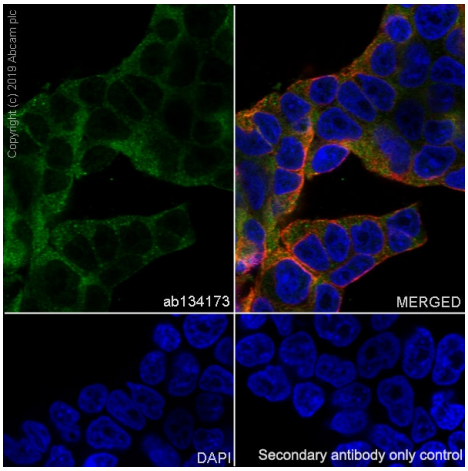
**Predicted band size:** 25 kDa
**Observed band size:** 25 kDa

Blocking/Diluting buffer: 5% NFDM/TBST



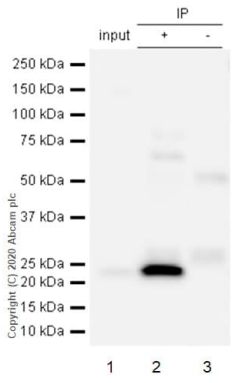

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-GSTK1 antibody [EPR1939] (ab134173)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human kidney tissue sections labeling GSTK1 with purified ab134173 at 1/300 dilution (0.99 µg/mL). Heat mediated antigen retrieval using Bond™ Epitope Retrieval Solution 2 (pH 9.0). 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.



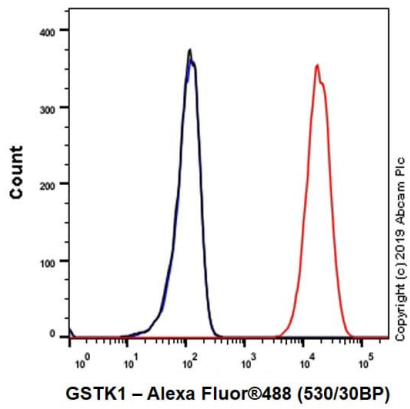

Immunocytochemistry/ Immunofluorescence - Anti-GSTK1 antibody [EPR1939] (ab134173)

Immunocytochemistry/ Immunofluorescence analysis of 293T (Human embryonic kidney epithelial cell) cells labeling GSTK1 with Purified ab134173 at 1/50 dilution (5.92 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 (2.5 µg/mL). Goat anti rabbit IgG (Alexa Fluor® 488, **ab150077**) was used as the secondary antibody at 1/1000 (2 µg/mL) dilution. DAPI (blue) was used as nuclear counterstain. PBS instead of the primary antibody was used as the secondary antibody only control.



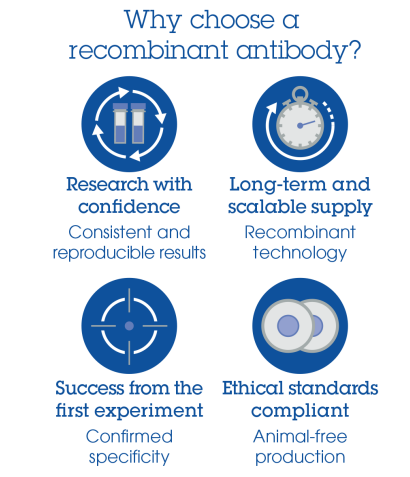

Immunoprecipitation - Anti-GSTK1 antibody [EPR1939] (ab134173)

Purified ab134173 at 1/30 dilution (2ug) immunoprecipitating GSTK1 in HeLa whole cell lysate.
Lane 1 (input): HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysate (10µg)
Lane 2 (+): ab134173 + HeLa whole cell lysate.
Lane 3 (-): Rabbit monoclonal IgG (**ab172730**) instead of ab134173 in HeLa whole cell lysate.
VeriBlot for IP Detection Reagent (HRP) (**ab131366**) (1/1000) was used for Western blotting.
Blocking Buffer and concentration: 5% NFDM/TBST.
Diluting buffer and concentration: 5% NFDM/TBST.
Observed band size: 25 kDa




Flow Cytometry (Intracellular) - Anti-GSTK1 antibody [EPR1939] (ab134173)

Intracellular Flow Cytometry analysis of HeLa (Human cervix adenocarcinoma epithelial cell) cells labeling GSTK1 with Purified ab134173 at 1/30 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).




Anti-GSTK1 antibody [EPR1939] (ab134173)



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