abcam

Product datasheet

Anti-Glutathione Peroxidase 1 antibody ab59546

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Overview

Product name	Anti-Glutathione Peroxidase 1 antibody
Description	Rabbit polyclonal to Glutathione Peroxidase 1
Host species	Rabbit
Tested applications	**Suitable for:** ICC/IF, WB, ELISA, IHC-Fr, IHC-P
Species reactivity	**Reacts with:** Rat, Human **Predicted to work with:** Mouse, Cow, Pig, Chimpanzee, Macaque monkey, Orangutan
Immunogen	Synthetic peptide corresponding to Human Glutathione Peroxidase 1 aa 175-194. Sequence: RRYSRRFQTIDIEPDIEALL Run BLAST with Run BLAST with
Positive control	Human brain tissue cytoplasmic lysate Human or rat glial cells Human or rat neurons Stains human and rat glial cells very strongly and shows lesser staining in neurons.
General notes	Store working volume at +4°C.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Storage buffer	Preservative: 0.02% Thimerosal (merthiolate) Constituent: Whole serum
Purity	Whole antiserum
Clonality	Polyclonal
Isotype	IgG

Applications

Our Abpromise guarantee covers the use of **ab59546** 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		1/20 - 1/100.
WB	★★★★☆	1/1000 - 1/4000. Detects a band of approximately 22 kDa.
ELISA		1/1000 - 1/4000.
IHC-Fr		Use at an assay dependent concentration.
IHC-P	★★★★★	Use at an assay dependent concentration.

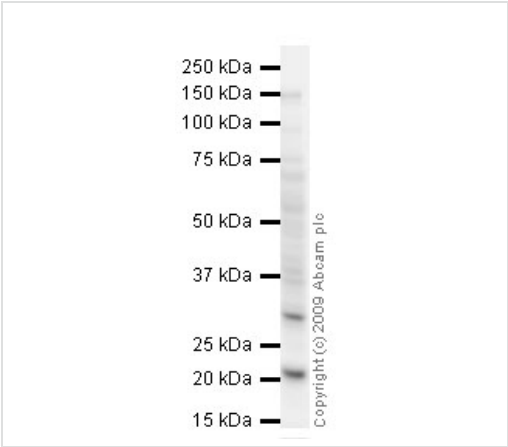
Target

Function Protects the hemoglobin in erythrocytes from oxidative breakdown.

Sequence similarities Belongs to the glutathione peroxidase family.

Cellular localization Cytoplasm.

Images



Western blot - Anti-Glutathione Peroxidase 1 antibody (ab59546)

Anti-Glutathione Peroxidase 1 antibody (ab59546) at 1/2000 dilution + Liver (Mouse) Tissue Lysate at 10 µg

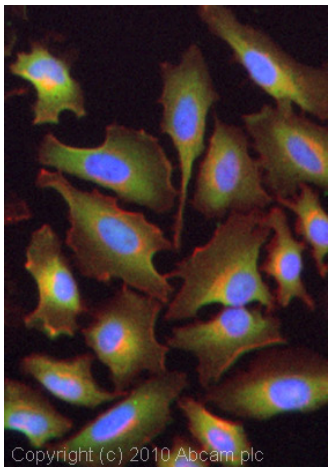
Secondary

Goat polyclonal to Rabbit IgG - H&L - Pre-Adsorbed (HRP) at 1/3000 dilution

Observed band size: 22 kDa

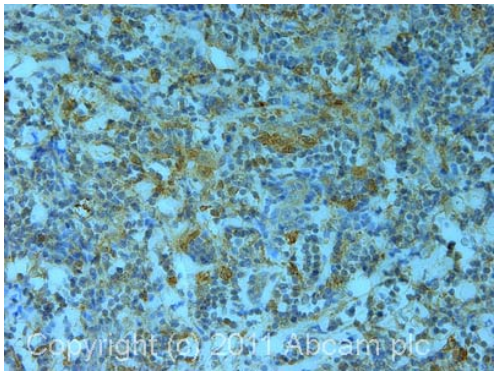
why is the actual band size different from the predicted?

Additional bands at: 30 kDa. We are unsure as to the identity of these extra bands.



Immunocytochemistry/ Immunofluorescence - Anti-Glutathione Peroxidase 1 antibody (ab59546)

ICC/IF image of ab59546 stained HeLa 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 (ab59546, 1µg/ml) overnight at +4°C. The secondary antibody (green) was Alexa Fluor® 488 goat anti-rabbit 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.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Glutathione Peroxidase 1 antibody (ab59546)

IHC image of ab59546 staining in human normal lymphoid 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 ab59546, 5µg/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.

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