

Product datasheet

Anti-Glutaredoxin 2 antibody - C-terminal ab85267

4 References 2 Images

Overview

<b>Product name</b>	Anti-Glutaredoxin 2 antibody - C-terminal
<b>Description</b>	Rabbit polyclonal to Glutaredoxin 2 - C-terminal
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> ICC/IF, WB, ELISA
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse, Human
<b>Immunogen</b>	Synthetic peptide selected from the C terminal region of human Glutaredoxin 2 conjugated to KLH (NP_932066)
<b>Positive control</b>	Mouse cerebellum tissue lysates.

Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid repeated freeze / thaw cycles.
<b>Storage buffer</b>	Preservative: 0.09% Sodium Azide Constituents: PBS
<b>Purity</b>	Ammonium Sulphate Precipitation
<b>Purification notes</b>	ab85267 is prepared by Saturated Ammonium Sulphate (SAS) precipitation followed by dialysis against PBS.
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab85267** 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		Use a concentration of 5 µg/ml.
WB		1/50 - 1/100. Detects a band of approximately 18 kDa (predicted molecular weight: 18 kDa).

Application	Abreviews	Notes
ELISA		1/1000.

## Target

### Function

Glutathione-dependent oxidoreductase that facilitates the maintenance of mitochondrial redox homeostasis upon induction of apoptosis by oxidative stress. Involved in response to hydrogen peroxide and regulation of apoptosis caused by oxidative stress. Acts as a very efficient catalyst of monothiol reactions because of its high affinity for protein glutathione-mixed disulfides. Can receive electrons not only from glutathione (GSH), but also from thioredoxin reductase supporting both monothiol and dithiol reactions. Efficiently catalyzes both glutathionylation and deglutathionylation of mitochondrial complex I, which in turn regulates the superoxide production by the complex. Overexpression decreases the susceptibility to apoptosis and prevents loss of cardiolipin and cytochrome c release.

### Tissue specificity

Widely expressed. Expressed in brain, heart, skeletal muscle, colon, thymus, spleen, kidney, liver, small intestine, placenta and lung. Not expressed in peripheral blood leukocytes.

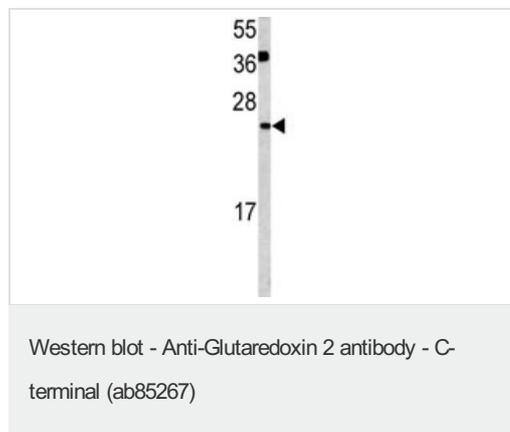
### Sequence similarities

Belongs to the glutaredoxin family.  
Contains 1 glutaredoxin domain.

### Cellular localization

Mitochondrion and Nucleus.

## Images

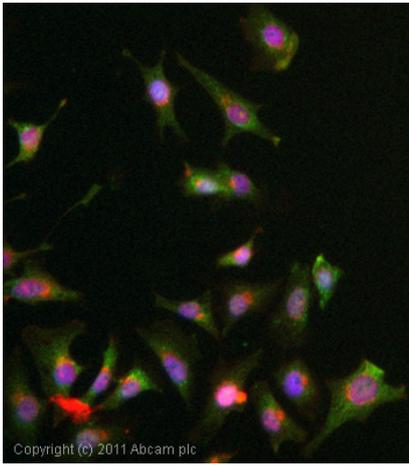


Anti-Glutaredoxin 2 antibody - C-terminal  
(ab85267) at 1/50 dilution + mouse  
cerebellum tissue lysates at 35 µg

**Predicted band size:** 18 kDa

**Observed band size:** 25 kDa

**Additional bands at:** 40 kDa. We are unsure  
as to the identity of these extra bands.



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Immunocytochemistry/ Immunofluorescence - Anti-Glutaredoxin 2 antibody - C-terminal (ab85267)

ICC/IF image of ab85267 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 (ab85267, 5µg/ml) overnight at +4°C. The secondary antibody (green) was ab96899, DyLight® 488 goat anti-rabbit IgG (H+L) used at a 1/250 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.

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