

## Product datasheet

# Anti-Peroxiredoxin 6 antibody ab59543

★★★★★ 10 Abreviews 11 References 7 图像

### 概述

|       |   |
|-------|---|
| 产品名称  | Anti-Peroxiredoxin 6抗体  |
| 描述    | 兔多克隆抗体to Peroxiredoxin 6  |
| 特异性   | ab59543 reacts with Peroxiredoxin 6.  |
| 经测试应用 | 适用于: Flow Cyt, WB, ELISA, IHC-Fr, IHC-P, ICC/IF   |
| 种属反应性 | 与反应: Mouse, Rat, Human  |
| 免疫原   | Recombinant full length protein (Rat) Peroxiredoxin 6   |
| 阳性对照  | Rat and mouse lung and human brain.   |
| 常规说明  | Staining pattern: cytoplasm of epithelial cells in the rat and mouse lung and rat and human brain astrocytes. Stains human brain astrocytes in Parkinson's and Alzheimer's disease and the central core of some Lewy bodies in Parkinson's disease and dementia with Lewy bodies. |

### 性能

|      |  |
|------|--|
| 形式   | Liquid   |
| 存放说明 | Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle. |
| 存储溶液 | Preservative: 0.02% Thimerosal (merthiolate)<br>Constituents: Whole serum  |
| 纯度   | Whole antiserum  |
| 克隆   | 多克隆  |
| 同种型  | IgG  |

### 应用

Our [Abpromise guarantee](#) covers the use of **ab59543** in the following tested applications.

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

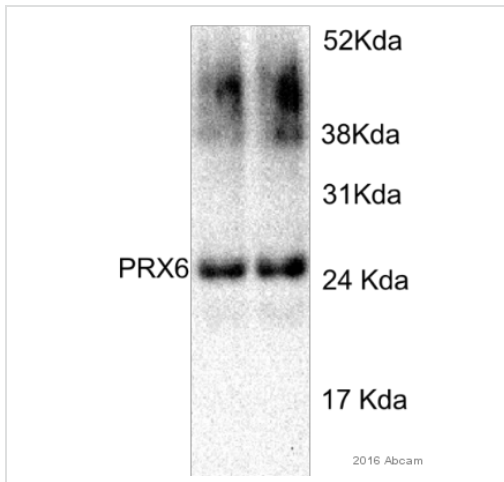
| 应用 | Ab评论 | 说明 |
|----|------|----|
|----|------|----|

| 应用       | Ab评论  | 说明  |
|----------|-------|---|
| Flow Cyt | ★★★★★ | 1/200.<br><a href="#">ab171870</a> - Rabbit polyclonal IgG, is suitable for use as an isotype control with this antibody. |
| WB       | ★★★★★ | 1/1000 - 1/4000. Predicted molecular weight: 25 kDa.  |
| ELISA    |       | 1/1000 - 1/4000.  |
| IHC-Fr   |       | 1/500 - 1/1000.   |
| IHC-P    |       | Use at an assay dependent concentration.  |
| ICC/IF   | ★★★★☆ | 1/50 - 1/100.   |

## 靶标

|       |  |
|-------|--|
| 功能    | Involved in redox regulation of the cell. Can reduce H <sub>2</sub> O <sub>2</sub> and short chain organic, fatty acid, and phospholipid hydroperoxides. May play a role in the regulation of phospholipid turnover as well as in protection against oxidative injury. |
| 序列相似性 | Belongs to the ahpC/TSA family. Rehydrin subfamily.<br>Contains 1 thioredoxin domain.  |
| 细胞定位  | Cytoplasm. Lysosome. Cytoplasmic vesicle. Also found in lung secretory organelles.   |

## 图片



Western blot - Anti-Peroxiredoxin 6 antibody (ab59543)

This image is courtesy of an anonymous Abreview.

**Lane 1 :** Anti-Peroxiredoxin 6 antibody (ab59543)

**Lane 2 :** Anti-Peroxiredoxin 6 antibody (ab59543) at 1/1000 dilution

**Lane 1 :** Mouse skeletal muscle whole tissue lysates

**Lane 2 :** Mouse skeletal muscle whole tissue lysates

Lysates/proteins at 20 µg per lane.

### Secondary

HRP-conjugated goat anti-rabbit polyclonal IgG at 1/4000 dilution

Developed using the ECL technique

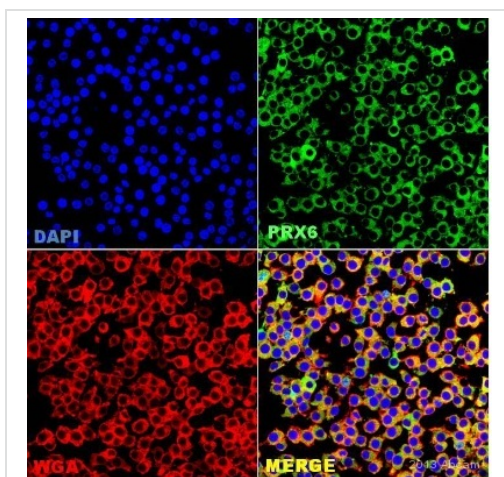
Performed under reducing conditions.

**Predicted band size :** 25 kDa

**Additional bands at :** 25 kDa. We are unsure as to the identity of these extra bands.

**Exposure time :** 5 minutes

*This image is courtesy of an anonymous Abreview*



Immunocytochemistry/ Immunofluorescence - Anti-Peroxiredoxin 6 antibody (ab59543)

This image is courtesy of an Abreview submitted by Mahesh Shivananjappa

ab59543 staining Peroxiredoxin 6 in RAW264.7 cells from Mouse macrophages by ICC/IF

(Immunocytochemistry/immunofluorescence).

Cells were fixed with paraformaldehyde,

permeabilized with Triton 0.1% + 2% BSA in

PBS and blocked with 2% BSA for 60 minutes

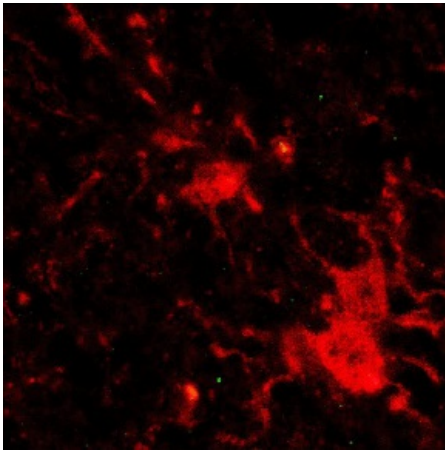
at 24°C. Samples were incubated with primary

antibody (1/50 in PBS + 2% BSA) for 16 hours

at 4°C. An Alexa Fluor®488-conjugated Goat

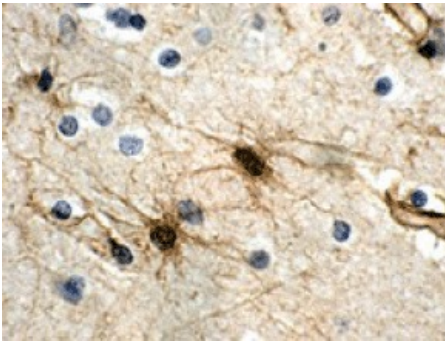
anti-rabbit polyclonal(1/500) was used as the

secondary antibody.



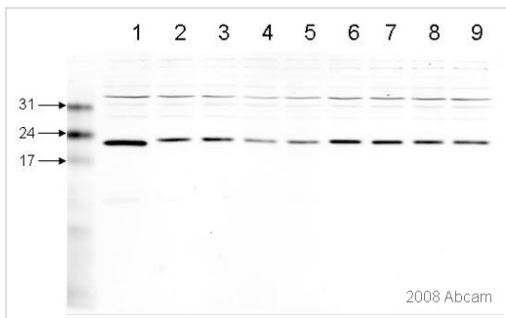
ab59543 at 1/100 dilution staining  
Peroxisome oxidoreductin 6 in astrocytes in Parkinson's  
disease by Immunohistochemistry. Secondary  
antibody anti-rabbit IgG conjugated to Cy3  
(1/100).

Immunohistochemistry (Formalin/PFA-fixed paraffin-  
embedded sections) - Anti-Peroxisome oxidoreductin 6 antibody  
(ab59543)



ab59543 at 1/1000 dilution staining  
Peroxisome oxidoreductin 6 in astrocytes in Parkinson's  
disease by IHC-P. Secondary antibody  
Donkey anti-rabbit conjugated to biotin.

Immunohistochemistry (Formalin/PFA-fixed paraffin-  
embedded sections) - Anti-Peroxisome oxidoreductin 6 antibody  
(ab59543)



Western blot - Anti-Peroxiredoxin 6 antibody  
(ab59543)

This image is courtesy of an Abreview submitted by Dr Martin Broadstock

**All lanes :** Anti-Peroxiredoxin 6 antibody  
(ab59543) at 1/2500 dilution

**Lane 1 :** Wild-type rat cortex

**Lane 2 :** Transgenic (APP/PS1) male mouse  
cortical lysate

**Lane 3 :** Transgenic (APP/PS1) male mouse  
cortical lysate

**Lane 4 :** Transgenic (APP/PS1) male mouse  
cortical lysate

**Lane 5 :** Transgenic (APP/PS1) male mouse  
cortical lysate

**Lane 6 :** Wild-type male mouse cortical lysate

**Lane 7 :** Wild-type male mouse cortical lysate

**Lane 8 :** Wild-type male mouse cortical lysate

**Lane 9 :** Wild-type male mouse cortical lysate

### Secondary

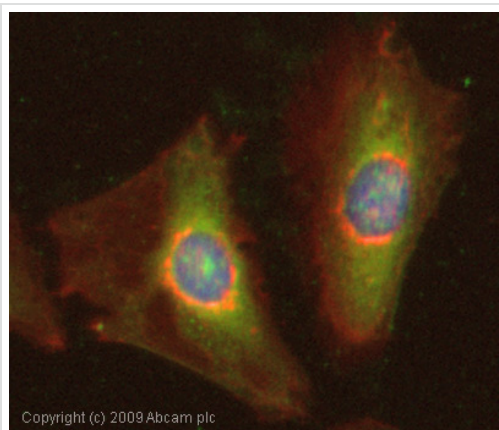
Alexa Fluor 680-conjugated goat anti rabbit  
IgG polyclonal antibody

**Predicted band size :** 25 kDa

**Observed band size :** ~25 kDa

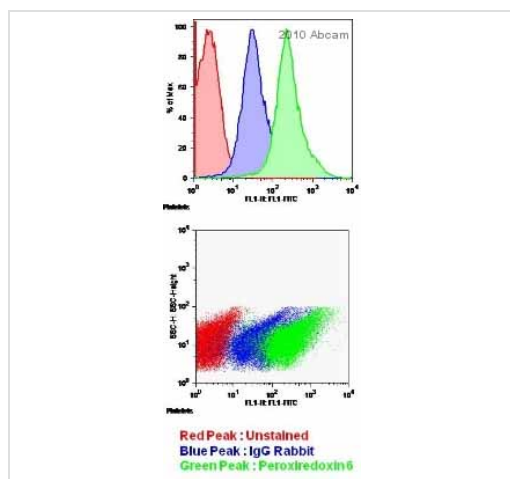
*This image is courtesy of an Abreview  
submitted by Dr Martin Broadstock*

Western blot showing detection of  
Peroxiredoxin 6 in mouse and rat cortical  
lysates by ab59543.



Immunocytochemistry/ Immunofluorescence - Anti-Peroxiredoxin 6 antibody (ab59543)

ICC/IF image of ab59543 stained HeLa cells. The cells were 100% methanol fixed (5 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 (ab59543, 1/1000 dilution) 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.



Flow Cytometry - Anti-Peroxiredoxin 6 antibody (ab59543)

Image courtesy of an anonymous Abreview.

ab59543 staining Peroxiredoxin 6 in Human platelet cells by Flow cytometry. Cells were fixed in paraformaldehyde and permeabilized using 0.1% Triton-X-100 in 2% BSA for 15 minutes. Primary antibody used at a 1/200 dilution and incubated for 16 hours at 4°C. The secondary antibody used was an Alexa Fluor®488 conjugated chicken anti-rabbit IgG (H+L) at a 1/500 dilution.

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