abcam

Product datasheet

Anti-Peroxiredoxin 1/PAG antibody ab59538

★★★★☆ **2 Abreviews**   **16 References**   **3 Images**

Overview

Product name	Anti-Peroxiredoxin 1/PAG antibody
Description	Rabbit polyclonal to Peroxiredoxin 1/PAG
Host species	Rabbit
Tested applications	**Suitable for:** WB, ICC/IF
Species reactivity	**Reacts with:** Rat, Human
	Predicted to work with: Cow, Cynomolgus monkey, Chinese hamster ⚠
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
General notes	The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.
	If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

Properties

Form	Liquid
Storage instructions	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.
Storage buffer	Preservative: 0.02% Thimerosal (merthiolate) Constituent: Whole serum
Purity	Whole antiserum
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee   Our **Abpromise guarantee** covers the use of ab59538 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
WB	★★★★☆ (1)	1/1000 - 1/4000. Predicted molecular weight: 22 kDa.
ICC/IF		1/50 - 1/100.

Target

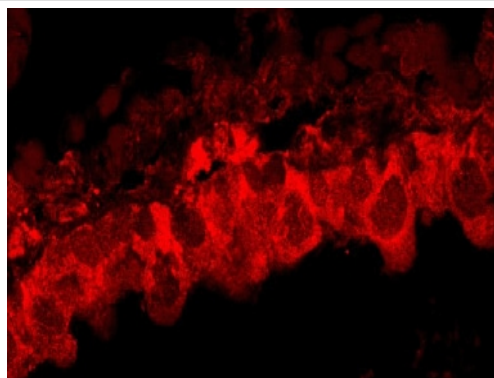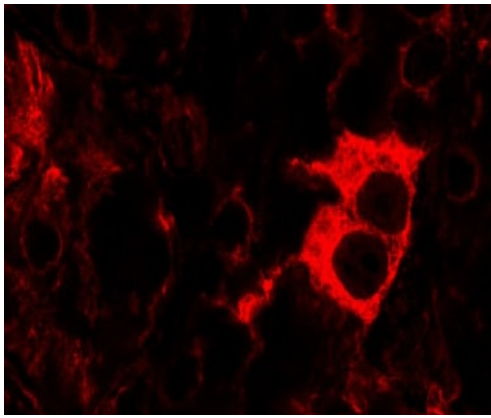|	
Function	Involved in redox regulation of the cell. Reduces peroxides with reducing equivalents provided through the thioredoxin system but not from glutaredoxin. May play an important role in eliminating peroxides generated during metabolism. Might participate in the signaling cascades of growth factors and tumor necrosis factor-alpha by regulating the intracellular concentrations of H_2O_2. Reduces an intramolecular disulfide bond in GDPD5 that gates the ability to GDPD5 to drive postmitotic motor neuron differentiation.
Sequence similarities	Belongs to the ahpC/TSA family. Contains 1 thioredoxin domain.
Post-translational modifications	Phosphorylated on Thr-90 during the M-phase, which leads to a more than 80% decrease in enzymatic activity.
Cellular localization	Cytoplasm. Melanosome. Identified by mass spectrometry in melanosome fractions from stage I to stage IV.

Images

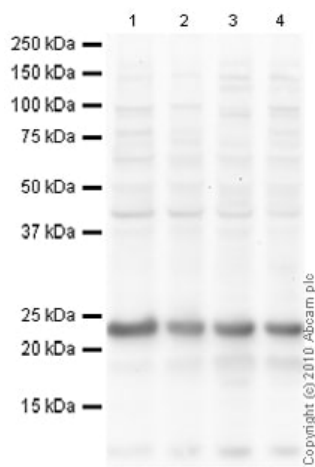Immunocytochemistry/ Immunofluorescence - Anti-Peroxiredoxin 1/PAG antibody (ab59538)

ab59538 at 1/100 dilution staining Peroxiredoxin 1/PAG in Non-ciliated bronchiolar cells (Clara cells) of rat airway by Immunofluorescence. Secondary antibody Jackson Cy3 (1/200).

Immunocytochemistry/ Immunofluorescence - Anti-Peroxiredoxin 1/PAG antibody (ab59538)

ab59528 at 1/100 dilution staining Peroxiredoxin 1/PAG in Rat kidney tubules by Immunofluorescence. Secondary antibody Jackson Cy3 (1/200).

Western blot - Anti-Peroxiredoxin 1/PAG antibody (ab59538)

All lanes : Anti-Peroxiredoxin 1/PAG antibody (ab59538) at 1/500 dilution

Lane 1 : HeLa (Human epithelial carcinoma cell line) Whole Cell Lysate

Lane 2 : HepG2 (Human hepatocellular liver carcinoma cell line) Whole Cell Lysate

Lane 3 : Jurkat (Human T cell lymphoblast-like cell line) Whole Cell Lysate

Lane 4 : HEK293 (Human embryonic kidney cell line) Whole Cell Lysate

Lysates/proteins at 10 µg per lane.

Secondary
All lanes : Goat Anti-Rabbit IgG H&L (HRP) preadsorbed (ab97080) at 1/5000 dilution

Developed using the ECL technique.

Performed under reducing conditions.

Predicted band size: 22 kDa

Observed band size: 22 kDa

Additional bands at: 43 kDa. We are unsure as to the identity of these extra bands.

Exposure time: 30 seconds

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

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