

Anti-Peroxiredoxin 1 Polyclonal Antibody

Product Details

Ig Type:	IgG
Reactivity:	Human, Mouse, Rat (predicted: Dog, Cow, Horse, Rabbit, Pig)
Molecular Weight:	Theoretical: 22 kDa. Actual: 23 kDa.
Purification:	Protein A purified

Applications

1. Tissue/cell: Rat brain; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01 M, pH 6.0), Boiling bathing for 15 min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30 min; Blocking buffer (normal goat serum) at 37°C for 20 min; Incubation: Anti-PRDX1 Polyclonal Antibody, Unconjugated (TMAB-10196) 1: 200, overnight at 4°C, followed by conjugation to the secondary antibody and DAB staining
 2. Blank control: mouse splenocytes (blue)
Isotype Control Antibody: Rabbit IgG (orange);
Secondary Antibody: Goat anti-rabbit IgG-FITC (white blue),
Dilution: 1:100 in 1 X PBS containing 0.5% BSA;
Primary Antibody Dilution: 1 µl in 100 µl 1X PBS containing 0.5% BSA (green).
 3. Blank control: Hela.
Primary Antibody (green line): Rabbit Anti-Peroxiredoxin 1 antibody (TMAB-10196)
Dilution: 2 µg/Test;
Secondary Antibody: Goat anti-rabbit IgG-FITC
Dilution: 0.5 µg/Test.
- Verified Activity: Protocol
- The cells were fixed with 4% PFA (10 min at room temperature) and then permeabilized with 0.1% PBST for 20 min at room temperature. The cells were then incubated in 5% BSA to block non-specific protein-protein interactions for 30 min at room temperature. Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.
4. Sample:
 - Lane 1: Human Raji cell lysates
 - Lane 2: Human Hela cell lysates
 - Lane 3: Human A431 cell lysates
 - Lane 4: Human Hela cell lysates
- Primary: Anti-Peroxiredoxin 1 (TMAB-10196) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 22 kD
Observed band size: 23 kD

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Application: WB,IHC-P,IHC-Fr,IF,FCM

Recommended WB: 1:500-2000; IHC-P: 1:100-500; IHC-Fr: 1:100-500; IF: 1:100-500; FCM: 2µg/Test

Properties

Stability & Storage: Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

Antigen Details

Immunogen: KLH conjugated synthetic peptide: human PRDX1

Antigen Species: Human

Gene ID: 5052

Uniprot ID: Q06830

Research Background

This gene encodes a member of the peroxiredoxin family of antioxidant enzymes, which reduce hydrogen peroxide and alkyl hydroperoxides. The encoded protein may play an antioxidant protective role in cells, and may contribute to the antiviral activity of CD8(+) T-cells. This protein may have a proliferative effect and play a role in cancer development or progression. Four transcript variants encoding the same protein have been identified for this gene. [provided by RefSeq, Jan 2011].

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