

Anti-Catalase/CAT Polyclonal Antibody

Product Details

Ig Type:	IgG
Reactivity:	Human,Rat (predicted:Mouse)
Molecular Weight:	Theoretical: 60 kDa. Actual: 60 kDa.
Purification:	Protein A purified

Applications

1. Tissue/cell: rat brain tissue; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH6.0), 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-Catalase Polyclonal Antibody, Unconjugated (TMAB-00295) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody and DAb staining.

2. Blank control: HL60. Primary Antibody (green line): Rabbit Anti-Catalase antibody (TMAB-00295)

Dilution: 1 µg/10⁶ cells;

Isotype Control Antibody (orange line): Rabbit IgG.

Secondary Antibody: Goat anti-rabbit IgG-PE

Dilution: 1 µg/test.

Protocol

Verified Activity: The cells were fixed with 4% PFA (10 min at room temperature) and then permeabilized with 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.

3. Sample:

Lane 1: Rat Kidney tissue lysates

Lane 2: Rat Placenta tissue lysates

Lane 3: Rat Heart tissue lysates

Lane 4: Human HeLa cell lysates

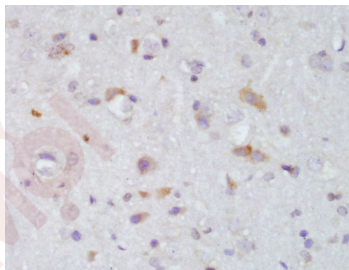
Lane 5: Human HepG2 cell lysates

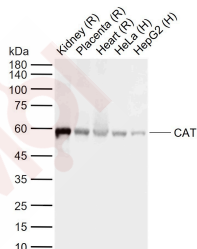
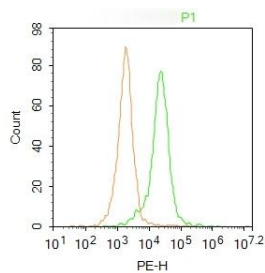
Primary: Anti-CAT at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 60 kDa

Observed band size: 60 kDa





Application: WB
Recommended WB=1:500-2000

Properties

Stability & Storage: 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: mouse Catalase
Antigen Species: Mouse
Gene ID: 12359
Uniprot ID: P24270
Synonyms: CAT;Catalase
Biology Area: Cellular metabolic process,Cardiac metabolism,Antioxidants,Heat Shock Proteins,Peroxisome

Research Background

Catalase is the classical marker for peroxisomes and is the most abundant protein within peroxisomes. It is found in almost all aerobically respiring organisms and serves to protect cells from the toxic effects of hydrogen peroxide.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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