

Anti-Sulfiredoxin-1 Polyclonal Antibody

Product Details

Ig Type:	IgG
Reactivity:	Human, Mouse, Rat (predicted: Chicken, Dog, Pig, Cow, Horse, Rabbit)
Molecular Weight:	Theoretical: 15 kDa. Actual: 15 kDa.
Purification:	Protein A purified

Applications

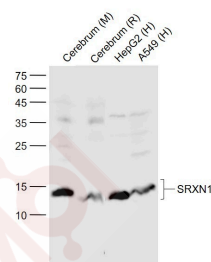
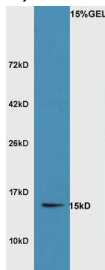
1. Sample: Kidney (Mouse) Lysate at 40 µg
Primary: Anti-SRXN1 (TMAB-01797) at 1/300 dilution
Secondary: HRP conjugated Goat-Anti-rabbit IgG (secondary antibody) at 1/5000 dilution
Predicted band size: 15 kDa
Observed band size: 15 kDa

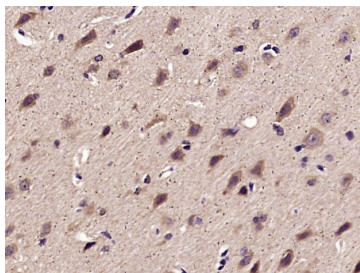
2. Sample:

Lane 1: Cerebrum (Mouse) Lysate at 40 µg
Lane 2: Cerebrum (Rat) Lysate at 40 µg
Lane 3: HepG2 (Human) Cell Lysate at 30 µg

Verified Activity: Lane 4: A549 (Human) Cell Lysate at 30 µg
Primary: Anti-SRXN1 (TMAB-01797) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 15 kDa
Observed band size: 15 kDa

3. Paraformaldehyde-fixed, paraffin embedded (rat brain tissue); Antigen retrieval by microwave in sodium citrate buffer (pH6.0); Block endogenous peroxidase by 3% hydrogen peroxide for 30 minutes; Blocking buffer (3% BSA) at RT for 30 min; Antibody incubation with (SRXN1) Polyclonal/Monoclonal Antibody, Unconjugated (TMAB-01797) at 1:400 overnight at 4°C, followed by conjugation to the secondary antibody (labeled with HRP) and DAB staining.





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

Recommended IF=1:100-500; IHC-Fr=1:100-500; IHC-P=1:100-500; 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: human SRXN1

Antigen Species: Human

Gene ID: 140809

Uniprot ID: Q9BYN0

Synonyms: Sulfiredoxin-1;SRX1;SRXN1;C20orf139;SRX

Biology Area: Oxidative Stress,Oxidative stress

Research Background

Sulfiredoxin, also designated Sulfiredoxin-1 and chromosome 20 open reading frame 139 (C20orf139), is a cytoplasmic antioxidant protein involved in signaling through catalytic reduction of oxidative modifications. It regulates peroxiredoxins (PRXs), a family of proteins that reduce hydroperoxides, by reducing the conserved cysteine from sulfinic to sulfenic acid. This impacts the role of PRX in the reduction of other downstream transcription factors and kinase signaling pathways. The Sulfiredoxin protein specifically acts on the PRDX1, PRDX2, PRDX3 and PRDX4 peroxiredoxins, but not on PRDX5 or PRDX6. Sulfiredoxin acts as a phosphotransferase and an a-thioltransferase and is widely expressed, with highest levels detected in lung, spleen, kidney and thymus tissues.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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