

Anti-NOX4 Polyclonal Antibody

Product Details

Ig Type:	IgG
Reactivity:	Human,Mouse,Rat (predicted:Dog,Cow,Horse)
Molecular Weight:	Theoretical: 64 kDa. Actual: 62 kDa.
Purification:	Protein A purified

Applications

1. Paraformaldehyde-fixed, paraffin embedded (Mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 min; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (NADpHoxidase 4) Polyclonal Antibody, Unconjugated (TMAB-01255) at 1:400 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructions and DAB staining.
 2. Paraformaldehyde-fixed, paraffin embedded (Mouse kidney); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 min; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (NADpHoxidase 4) Polyclonal Antibody, Unconjugated (TMAB-01255) at 1:400 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructions and DAB staining.
 3. Sample:
 - Lane 1: Kidney (Mouse) Lysate at 40 µg
 - Lane 2: Lung (Mouse) Lysate at 40 µg
 - Lane 3: Bronchus (Mouse) Lysate at 40 µg
 - Lane 4: Heart (Mouse) Lysate at 40 µg
 - Lane 5: Kidney (Rat) Lysate at 40 µg
 - Lane 6: Lung (Rat) Lysate at 40 µg
 - Lane 7: Bronchus (Rat) Lysate at 40 µg
- Verified Activity:
- Primary: Anti-NADpHoxidase 4 (TMAB-01255) at 1/1000 dilution
 Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
 Predicted band size: 64 kDa
 Observed band size: 62 kDa
4. Blank control: 293T.
 Primary Antibody (green line): Rabbit Anti-NADpHoxidase 4 antibody (TMAB-01255)
 Dilution: 1 µg/10⁶ cells;
 Isotype Control Antibody (orange line): Rabbit IgG.
 Secondary Antibody: Goat anti-rabbit IgG-AF488
 Dilution: 1 µg/test.
- Protocol
- The cells were fixed with 4% PFA (10 min at room temperature) and then permeabilized with 90% ice-cold methanol for 20 min at -20°C. 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.
5. Paraformaldehyde-fixed, paraffin embedded (mouse kidney); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen

peroxide for 20 min; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (NADpHoxidase 4) Polyclonal Antibody, Unconjugated (TMAB-01255) at 1:200 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructions and DAB staining.

6. Paraformaldehyde-fixed, paraffin embedded (rat kidney); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 min; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (NADpHoxidase 4) Polyclonal Antibody, Unconjugated (TMAB-01255) at 1:200 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructions and DAB staining.

7. Paraformaldehyde-fixed, paraffin embedded (mouse heart); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 min; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (NADpHoxidase 4) Polyclonal Antibody, Unconjugated (TMAB-01255) at 1:200 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructions and DAB staining.

8. Paraformaldehyde-fixed, paraffin embedded (rat heart); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 min; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (NADpHoxidase 4) Polyclonal Antibody, Unconjugated (TMAB-01255) at 1:200 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructions and DAB staining.

9. Paraformaldehyde-fixed, paraffin embedded (Human kidney); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 min; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (NADpHoxidase 4) Polyclonal Antibody, Unconjugated (TMAB-01255) at 1:200 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructions and DAB staining.

10. Blank control: Raji.

Primary Antibody (green line): Rabbit Anti-NADpHoxidase 4 antibody (TMAB-01255)

Dilution: 1 µg/10⁶ cells;

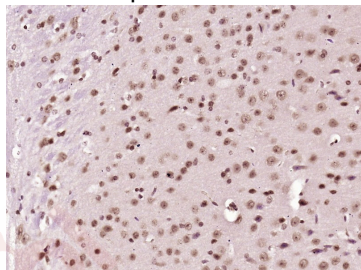
Isotype Control Antibody (orange line): Rabbit IgG.

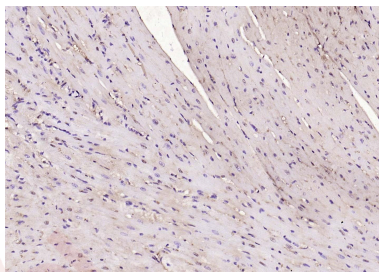
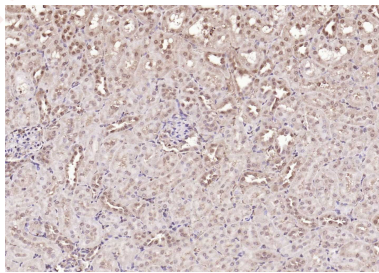
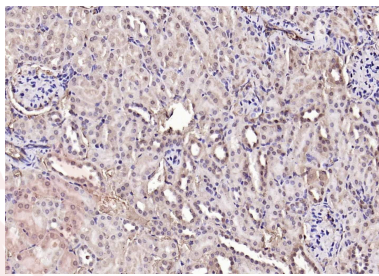
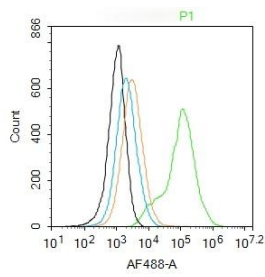
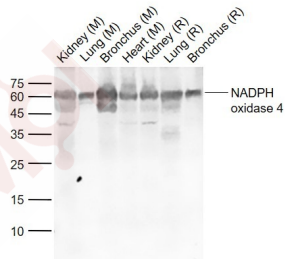
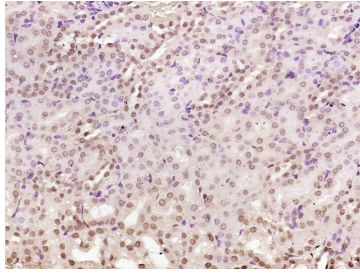
Secondary Antibody: Goat anti-rabbit IgG-PE

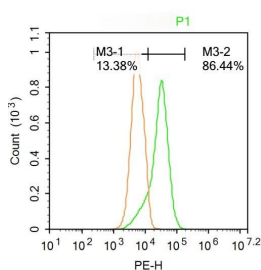
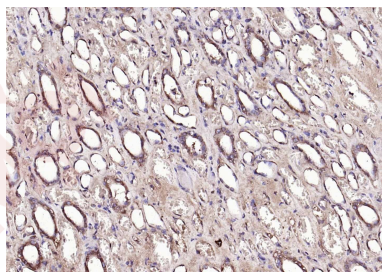
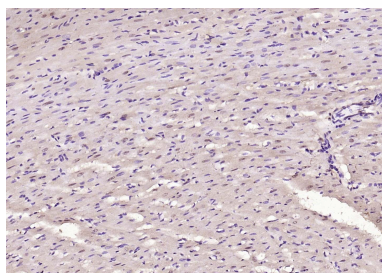
Dilution: 1 µg/test.

Protocol

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.







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

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

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 Nox-4

Antigen Species: Human

Gene ID: 50507

Uniprot ID: Q9NPH5

Synonyms: RENOX;Kidney superoxide-producing NADPH oxidase;NADPH oxidase 4;Kidney oxidase-1 (KOX-1);NOX4;Renal NAD(P)H-oxidase

Research Background

Nox4 is a renal gp91-phox homolog highly expressed at the site of erythropoietin production in the proximal convoluted tubule epithelial cells of the renal cortex. Nox4 is also expressed in fetal tissues, placenta, glioblastoma and vascular cells. Like gp91-phox, the enzymatic activity of Nox4 produces superoxide anions. In vascular cells, the addition of angiotensin II increases Nox4 expression, which suggests a role for Nox-4 in vascular oxidative stress response.

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