

Anti-StAR Polyclonal Antibody

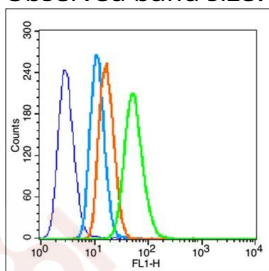
Product Details

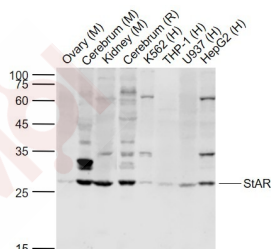
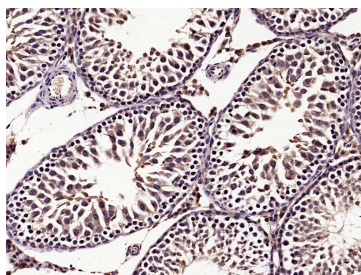
Ig Type: IgG
 Reactivity: Human, Mouse, Rat (predicted: Dog, Cow, Horse)
 Molecular Weight: Theoretical: 32 kDa. Actual: 28 kDa.
 Purification: Protein A purified

Applications

- Blank control (blue line): Hela (fixed with 80% methanol (5 min at -20°C) and then permeabilized with 0.1% PBS-Tween for 20 min at room temperature).
 Primary Antibody (green line): Rabbit Anti-StAR antibody (TMAB-01780), Dilution: 3 µg/10⁶ cells;
 Isotype Control Antibody (orange line): Rabbit IgG.
 Secondary Antibody (white blue line): Goat anti-rabbit IgG-FITC, Dilution: 1 µg/test.
- Paraformaldehyde-fixed, paraffin embedded (Rat testis); 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 (StAR) Polyclonal Antibody, Unconjugated (TMAB-01780) at 1:400 overnight at 4°C, followed by conjugation to the secondary antibody (labeled with HRP) and DAB staining.
- Sample:

Verified Activity: Lane 1: Ovary (Mouse) Lysate at 40 µg
 Lane 2: Cerebrum (Mouse) Lysate at 40 µg
 Lane 3: Kidney (Mouse) Lysate at 40 µg
 Lane 4: Cerebrum (Rat) Lysate at 40 µg
 Lane 5: K562 (Human) Cell Lysate at 30 µg
 Lane 6: THP-1 (Human) Cell Lysate at 30 µg
 Lane 7: U937 (Human) Cell Lysate at 30 µg
 Lane 8: HepG2 (Human) Cell Lysate at 30 µg
 Primary:
 Anti-StAR (TMAB-01780) at 1/1000 dilution
 Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
 Predicted band size: 32 kDa
 Observed band size: 28 kDa





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: 3µg /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 StAR/StARD1

Antigen Species: Human

Gene ID: 6770

Uniprot ID: P49675

Synonyms: Cholesterol trafficker;Steroidogenic acute regulatory protein mitochondrial;StARD1;StAR related lipid transfer(START) domain containing 1;Luteinizing hormone induced protein; Steroidogenic Acute Regulatory Protein;START domain containing protein 1;Mitochondrial steroid acute regulatory protein

Biology Area: Hormone biosynthesis, Metabolism of lipids and lipoproteins, Hormone biosynthesis, Lipid metabolism, Mitochondrial markers, Hormones, Mitochondrial, Organelle Proteins

Research Background

The protein encoded by this gene plays a key role in the acute regulation of steroid hormone synthesis by enhancing the conversion of cholesterol into pregnenolone. This protein permits the cleavage of cholesterol into pregnenolone by mediating the transport of cholesterol from the outer mitochondrial membrane to the inner mitochondrial membrane. Mutations in this gene are a cause of congenital lipoid adrenal hyperplasia (LAH), also called lipoid CAH. A pseudogene of this gene is located on chromosome 13. [provided by RefSeq, Jul 2008].

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