SunLong Biotech Co.,LTD
Tel: 0086-571- 56623320 Fax:0086-571- 56623318
E-mail:sales@sunlongbiotech.com
www.sunlongbiotech.com

# Rabbit Anti-StAR antibody

SL3570R

| | |
|---|---|
| **Product Name:** | StAR |
| **Chinese Name:** | 促黄体激素诱导蛋白抗体 |
| **Alias:** | StARD1; Cholesterol trafficker; Luteinizing hormone induced protein; Mitochondrial steroid acute regulatory protein; StAR related lipid transfer (START) domain containing 1; StARD1; START domain containing protein 1; Steroidogenic Acute Regulatory Protein; Steroidogenic acute regulatory protein mitochondrial; STAR_HUMAN. |
| **Organism Species:** | Rabbit |
| **Clonality:** | Polyclonal |
| **React Species:** | Human,Mouse,Rat,Dog,Cow,Horse, |
| **Applications:** | WB=1:500-2000IHC-P=1:400-800IHC-F=1:400-800Flow-Cyt=3μg /TestIF=1:100-500（Paraffin sections need antigen repair）<br>not yet tested in other applications.<br>optimal dilutions/concentrations should be determined by the end user. |
| **Molecular weight:** | 32kDa |
| **Cellular localization:** | cytoplasmicMitochondrion |
| **Form:** | Lyophilized or Liquid |
| **Concentration:** | 1mg/ml |
| **immunogen:** | KLH conjugated synthetic peptide derived from human StAR/StARD1:101-200/285 |
| **Lsotype:** | IgG |
| **Purification:** | affinity purified by Protein A |
| **Storage Buffer:** | 0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol. |
| **Storage:** | Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C. |
| **PubMed:** | PubMed |
| **Product Detail:** | 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 (CLAH), also called lipoid CAH. A pseudogene of this gene is located on chromosome 13. [provided by RefSeq, Jul 2008].

**Function:**
Plays a key role in steroid hormone synthesis by enhancing the metabolism of cholesterol into pregnenolone. Mediates the transfer of cholesterol from the outer mitochondrial membrane to the inner mitochondrial membrane where it is cleaved to pregnenolone.

**Subunit:**
May interact with TSPO.

**Subcellular Location:**
Mitochondrion.

**DISEASE:**
Defects in STAR are the cause of adrenal hyperplasia type 1 (AH1) [MIM:201710]. The most severe form of adrenal hyperplasia. It is a condition characterized by onset of profound adrenocortical insufficiency shortly after birth, hyperpigmentation reflecting increased production of pro-opiomelanocortin, elevated plasma rennin activity as a consequence of reduced aldosterone synthesis, and male pseudohermaphroditism resulting from deficient fetal testicular testosterone synthesis. Affected individuals are phenotypic females irrespective of gonadal sex, and frequently die in infancy if mineralocorticoid and glucocorticoid replacement are not instituted.

**Similarity:**
Contains 1 START domain.

**SWISS:**
P49675

**Gene ID:**
6770

**Database links:**

Entrez Gene: 6770Human

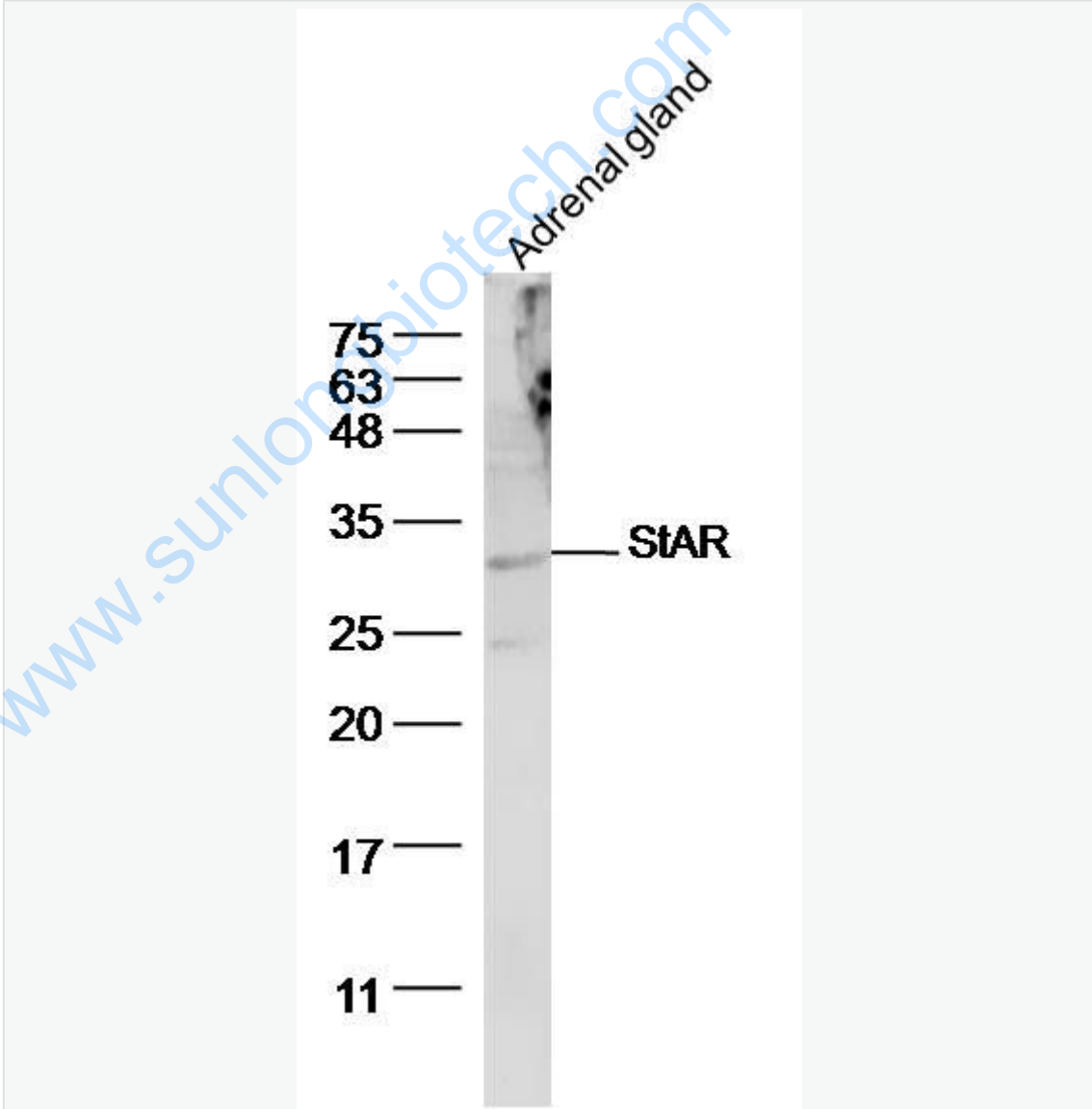
Entrez Gene: 20845Mouse

Entrez Gene: 25557Rat

Omim: 600617Human

SwissProt: P49675Human

SwissProt: P51557Mouse

| | |
|---|---|
| | SwissProt: P97826Rat<br><br>Unigene: 521535Human<br><br>Unigene: 293314Mouse<br><br>Unigene: 11399Rat<br><br>**Important Note:**<br>This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications. |
| **Picture:** |  <br>Sample: |

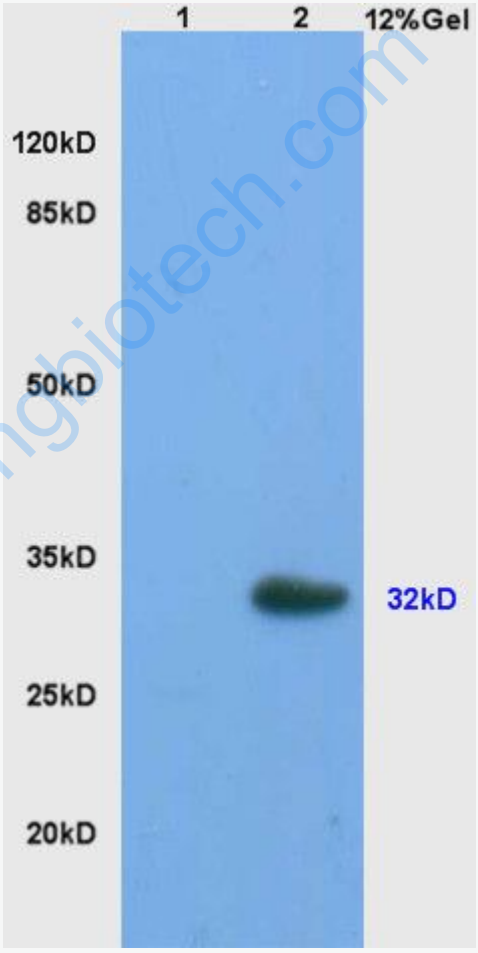
Adrenal gland(mouse) Lysate at 40 ug

Primary: Anti-StAR (SL3570R) at 1/300 dilution

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

Predicted band size: 32kD

Observed band size: 32 kD






Sample:

Ovary (Mouse) Lysate at 30 ug

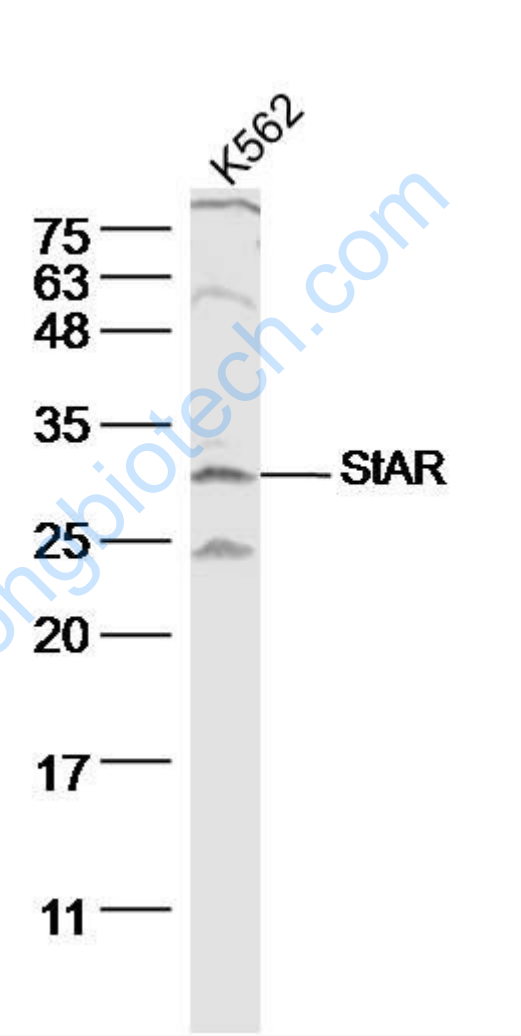
Brain (Mouse) Lysate at 30 ug

Primary: Anti-STAR/STARD1(SL3570R) at 1:200 dilution;

Secondary: HRP conjugated Goat Anti-Rabbit IgG(SL3570R) at 1: 3000 dilution;

Predicted band size : 32kD

Observed band size : 32kD






Sample:

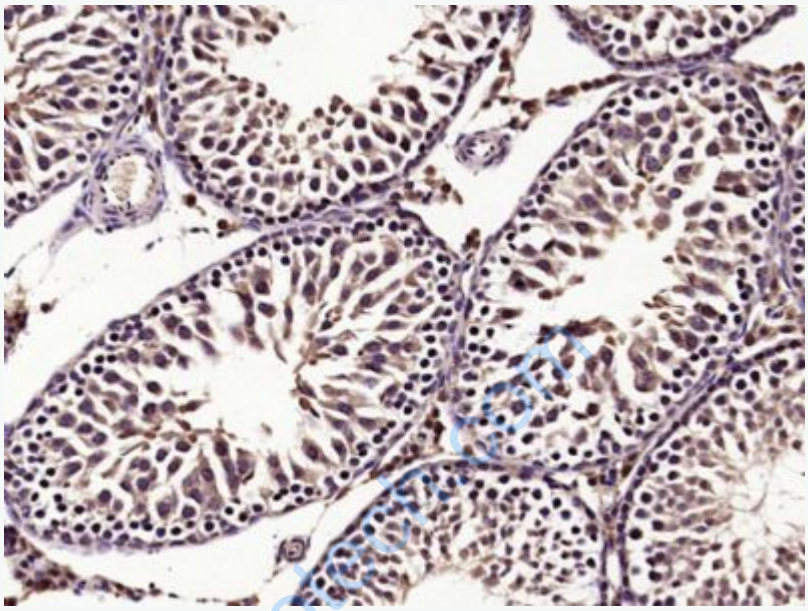
K562(human) cell Lysate at 30 ug

Primary: Anti-StAR (SL3570R) at 1/300 dilution

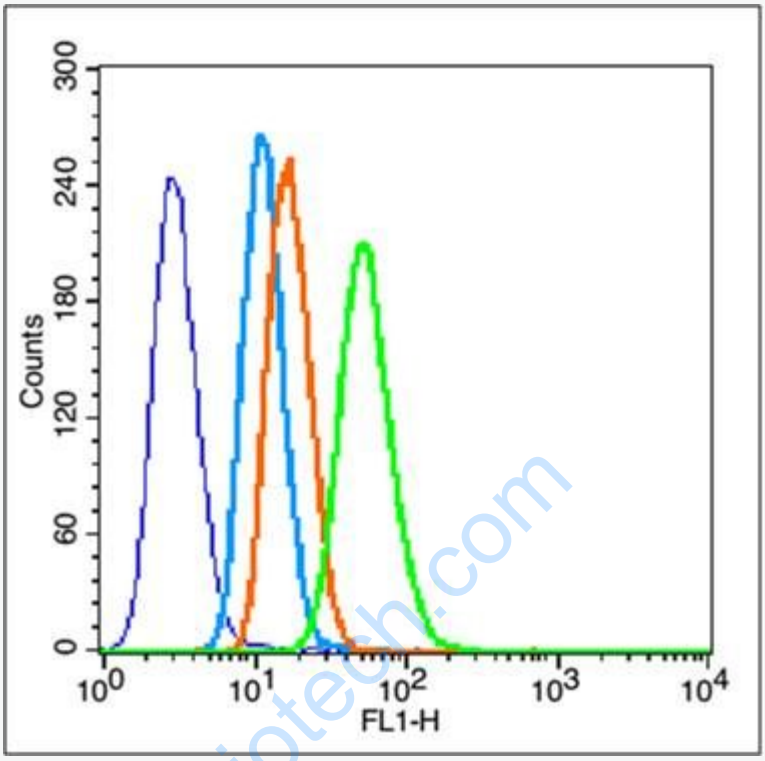
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 32kD

Observed band size: 32 kD



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 30min; Antibody incubation with (StAR) Polyclonal Antibody, Unconjugated (SL3570R) at 1:400 overnight at 4℃, followed by conjugation to the secondary antibody (labeled with HRP)and DAB staining.




Blank control (blue line): Hela (fixed with 80% methanol (5 min at -20℃) and then permeabilized with 0.1% PBS-Tween for 20 min at room temperature).

Primary Antibody (green line): Rabbit Anti-StAR antibody (SL3570R),Dilution: 3µg /10^6 cells;

Isotype Control Antibody (orange line): Rabbit IgG .

Secondary Antibody (white blue line): Goat anti-rabbit IgG-FITC,Dilution: 1µg /test.