**Product datasheet**

**Anti-StAR antibody ab96637**

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**Overview**

**Product name**  Anti-StAR antibody  
**Description**  Rabbit polyclonal to StAR  
**Host species**  Rabbit  
**Tested applications**  Suitable for: WB, IHC-P  
**Species reactivity**  Reacts with: Mouse, Rat, Human  
**Predicted to work with:** Cow, Dog, Pig  
**Immunogen**  Recombinant protein fragment corresponding to a region within amino acids 15 - 238 of Human STAR (NP_000340).  
**Positive control**  WB: HEK-293T, K562 whole cell lysate, mouse and rat adrenal gland lysate; IHC-P: Human hepatoma tissue; IF: HepG2 whole cell lysate.

**Properties**

**Form**  Liquid  
**Storage instructions**  Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.  
**Storage buffer**  pH: 7.00  
Preservative: 0.025% Proclin 300  
 Constituents: PBS, 20% Glycerol  
**Purity**  Immunogen affinity purified  
**Clonality**  Polyclonal  
**Isotype**  IgG

**Applications**

Our Abpromise guarantee covers the use of ab96637 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

<table>
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<tr>
<th>Application</th>
<th>Abreviews</th>
<th>Notes</th>
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<tbody>
<tr>
<td>WB</td>
<td>★★★★★</td>
<td>1/100 - 1/10000. Predicted molecular weight: 32 kDa.</td>
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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.

Tissue specificity
Expressed in gonads, adrenal cortex and kidney.

Pathway
Steroid metabolism; cholesterol metabolism.

Involvement in 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 renin 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.

Sequence similarities
Contains 1 START domain.

Cellular localization
Mitochondrion.

Images

Anti-STAr antibody (ab96637) at 1/1000 dilution + K562 (human chronic myelogenous leukemia cell line from bone marrow) whole cell lysate at 30 µg

Secondary
HRP-conjugated anti-rabbit IgG antibody

Predicted band size: 32 kDa

12% SDS-PAGE
Immunohistochemical analysis of paraffin-embedded human hepatoma tissue staining StAR protein at cytosol with ab96637 at 1/500.

Antigen Retrieval: EDTA based buffer, pH 8.0, 15min.

Immunofluorescence analysis of 4% paraformaldehyde-fixed HepG2 (human liver hepatocellular carcinoma cell line) whole cell lysate labeling StAR protein at mitochondria with ab96637 at 1/500 dilution. Blue: Hoechst 33342 staining.

All lanes: Anti-StAR antibody (ab96637) at 1/5000 dilution

Lane 1: Non-transfected HEK-293T (human epithelial cell line from embryonic kidney transformed with large T antigen) whole cell lysate

Lane 2: Transfected HEK-293T whole cell lysate

Lysates/proteins at 30 µg per lane.

Secondary

All lanes: HRP-conjugated anti-rabbit IgG antibody

Predicted band size: 32 kDa

12% SDS-PAGE
Western blot - Anti-StAR antibody (ab96637)

Image courtesy of an anonymous Abreview.

All lanes: Anti-StAR antibody (ab96637) at 1/1000 dilution

Lane 1: Whole tissue lysate prepared from murine adrenal gland
Lane 2: Whole tissue lysate prepared from rat adrenal gland

Lysates/proteins at 50 µg per lane.

Secondary

All lanes: HRP conjugated goat anti-rabbit polyclonal at 1/2500 dilution

Developed using the ECL technique.

Predicted band size: 32 kDa

Exposure time: 20 seconds

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