


Product datasheet

Anti-StAR antibody ab96637

★★★★★ [3 Abreviews](#) [21 References](#) [5 Images](#)

Overview

Product name	Anti-StAR antibody
Description	Rabbit polyclonal to StAR
Host species	Rabbit
Tested applications	Suitable for: ICC, WB, IHC-P
Species reactivity	Reacts with: 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).
General notes	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

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: 79% PBS, 20% Glycerol (glycerin, glycerine)
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee

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.

Application	Abreviews	Notes
ICC		Use at an assay dependent concentration.
WB	★★★★★ (3)	1/100 - 1/10000. Predicted molecular weight: 32 kDa.
IHC-P		1/100 - 1/1000.

Target

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.

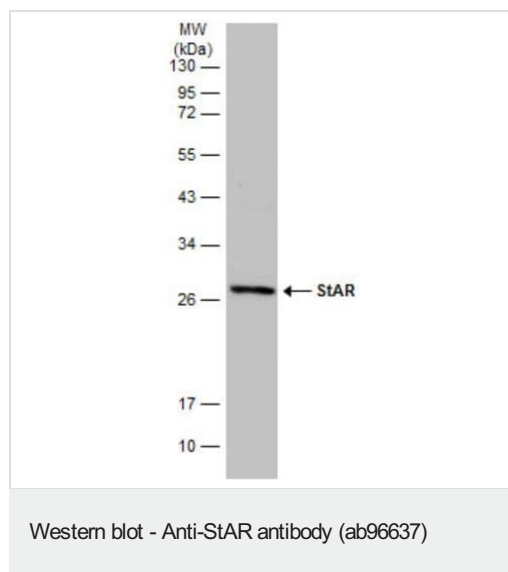
Sequence similarities

Contains 1 START domain.

Cellular localization

Mitochondrion.

Images



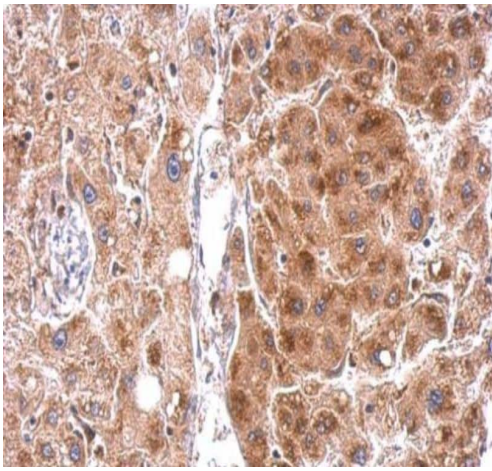
Anti-StAR antibody (ab96637) at 1/1000 dilution + K562 (human chronic myelogenous leukemia cell line from bone marrow) whole cell lysate at 30 µg

Secondary

HRP-conjugated anti-rabbit IgG antibody

Predicted band size: 32 kDa

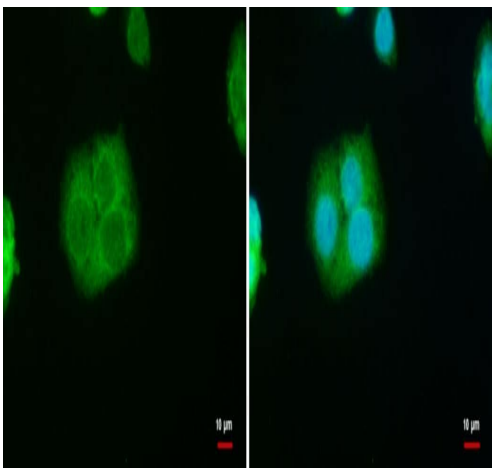
12% SDS-PAGE



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-StAR antibody (ab96637)

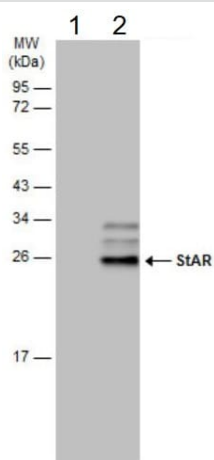
Immunohistochemical analysis of paraffin-embedded human hepatoma tissue staining StAR protein at cytosol with ab96637 at 1/500.

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



Immunocytochemistry - Anti-StAR antibody (ab96637)

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.



Western blot - Anti-StAR antibody (ab96637)

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

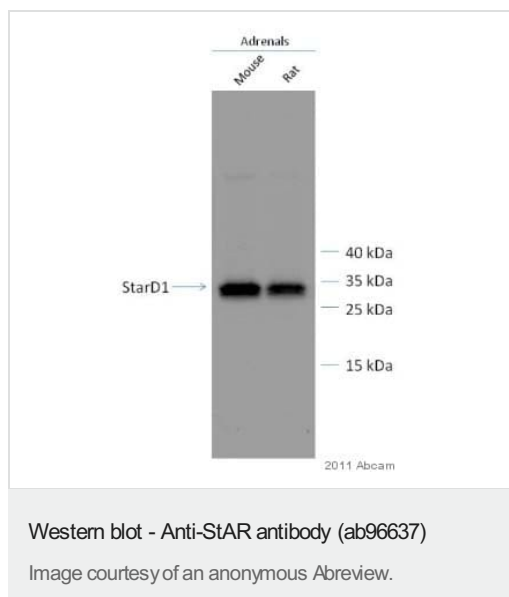
Lysates/proteins at 30 μg per lane.

Secondary

All lanes : HRP-conjugated anti-rabbit IgG antibody

Predicted band size: 32 kDa

12% SDS-PAGE



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

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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