




Product datasheet

Anti-StAR antibody ab233427

[4 References](#) [4 Images](#)

Overview

Product name	Anti-StAR antibody
Description	Rabbit polyclonal to StAR
Host species	Rabbit
Tested applications	Suitable for: IHC-P, WB
Species reactivity	Reacts with: Rat, Human, Pig Predicted to work with: Horse 
Immunogen	Recombinant full length protein corresponding to Human StAR aa 1 to the C-terminus. Two N-terminal tags, His-tag and GST-tag. Expressed in E.coli. Database link: P49675  Run BLAST with  Run BLAST with
Positive control	IHC-P: Human kidney tissue. WB: Recombinant human StAR protein; Rat adrenal gland lysate; Pig adrenal gland lysate.
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 long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.40 Preservative: 0.011% Proclin 300 Constituents: 55.77% Glycerol (glycerin, glycerine), 44.219% PBS
Purity	Immunogen affinity purified
Purification notes	Antigen-specific affinity chromatography followed by Protein A affinity chromatography.
Clonality	Polyclonal

Isotype

IgG

Applications

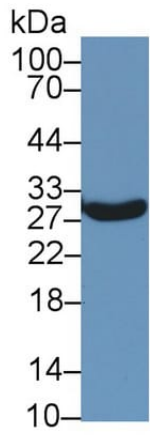
The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab233427 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-P		Use a concentration of 5 - 20 µg/ml.
WB		Use a concentration of 0.5 - 2 µg/ml. Predicted molecular weight: 32 kDa.

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.

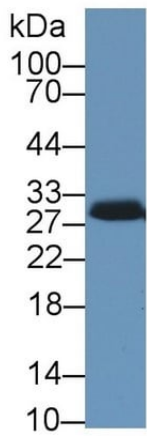
Images



Western blot - Anti-StAR antibody (ab233427)

Anti-StAR antibody (ab233427) at 2 $\mu\text{g/ml}$ + Rat adrenal gland lysate

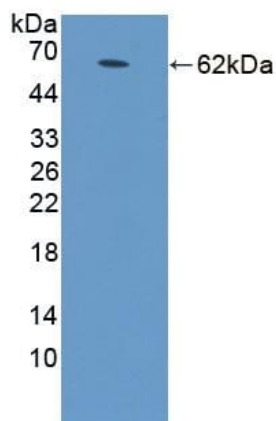
Predicted band size: 32 kDa



Western blot - Anti-StAR antibody (ab233427)

Anti-StAR antibody (ab233427) at 2 $\mu\text{g/ml}$ + Pig adrenal gland tissue lysate.

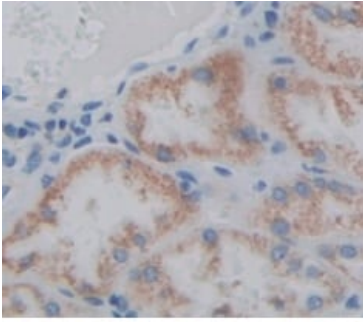
Predicted band size: 32 kDa



Western blot - Anti-StAR antibody (ab233427)

Anti-StAR antibody (ab233427) at 2 $\mu\text{g/ml}$ + Recombinant human StAR protein.

Predicted band size: 32 kDa



Formalin-fixed, paraffin-embedded human kidney tissue stained for StAR using ab233427 at 20µg/mL in immunohistochemical analysis. DAB staining.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-StAR antibody (ab233427)

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