



Product datasheet

Anti-StAR antibody ab180804

1 References 2 Images

Overview

<b>Product name</b>	Anti-StAR antibody
<b>Description</b>	Rabbit polyclonal to StAR
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> WB, IHC-P
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse, Rat, Human
<b>Immunogen</b>	<p>Recombinant full length protein corresponding to Human StAR aa 64-285. Mature form. Sequence:</p> <p>EETLYSD QELAYLQQGE EAMQKALGIL            SNQEGWKKES QQDNGDKVMS KVVDPVGVKVF            RLEVVDQPM ERLYEELVER MEAMGEWNPN            VKEIKVLQKI GKDTFITHEL AAEEAGNLVG            PRDFVSVRCA KRRGSTCVLA GMATDFGNMP            EQKGVIRAEH GPTCMVLHPL AGSPSKTKLT            WLLSIDLKGW LPKSIINQVL SQTQVDFANH            LRKRLESHA SEARC</p> <p>Database link: <a href="#">P49675</a></p> <p style="text-align: right;">  <a href="#">Run BLAST with</a>  <a href="#">Run BLAST with</a> </p>
<b>Positive control</b>	SK-BR-3 cell lysate

Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	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.
<b>Storage buffer</b>	<p>pH: 7.3            Preservative: 0.02% Sodium azide            Constituents: 50% Glycerol, 49% PBS</p>
<b>Purity</b>	Immunogen affinity purified
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

## Applications

Our [Abpromise guarantee](#) covers the use of **ab180804** 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
WB		1/50 - 1/200. Predicted molecular weight: 32 kDa.
IHC-P		1/500 - 1/2000. <a href="#">ab171870</a> - Rabbit polyclonal IgG, is suitable for use as an isotype control with this antibody.

## 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.

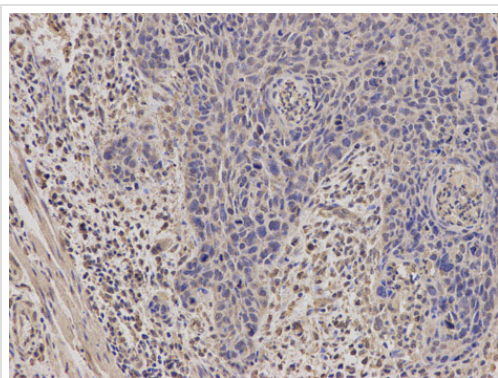
### Sequence similarities

Contains 1 START domain.

### Cellular localization

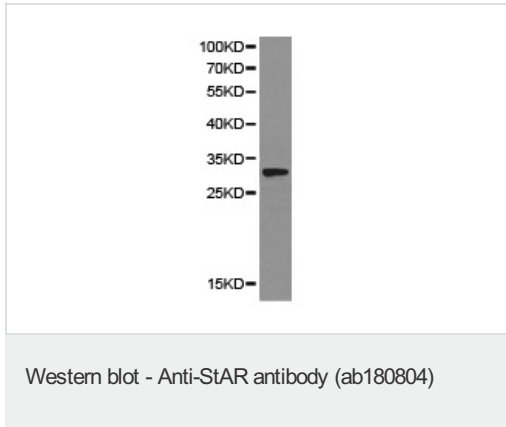
Mitochondrion.

## Images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human esophageal cancer tissue labelling StAR with ab180804 at 1/100. Magnification: 200x.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-StAR antibody (ab180804)



Anti-StAR antibody (ab180804) at 1/500 dilution + SK-BR-3 cell lysate

**Predicted band size: 32 kDa**

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

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