# Anti-StAR antibody ab180804

## Properties

<table>
<thead>
<tr>
<th><strong>Form</strong></th>
<th>Liquid</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Storage instructions</strong></td>
<td>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.</td>
</tr>
</tbody>
</table>
| **Storage buffer** | pH: 7.3  
Preservative: 0.02% Sodium azide  
Constituents: 50% Glycerol, 49% PBS |
| **Purity** | Immunogen affinity purified |
| **Clonality** | Polyclonal |
| **Isotype** | IgG |

### Immunogen
Sequence:
```
EETLYSD QELAYLQGE EAMQKALGIL  
SNQEGWKKES QQDNGDKVMS KVVPDVGKVF  
RLEVVDQPM ERLYEELVER MEAMGEWNPN  
VKEIKVLQKI GKDTFITHEL AAEAGNLVG  
PRDFVSVRCA KRRGSTCVLA GMATDFGNMP  
EQKGVIRAEH GPTCMVLHPL AGSPSKTKLT  
WLLSKDLKGW LPKSINQVL SQTQVDFANH  
LRKRLESHPA SEARC
```

Database link: [P49675](http://www.ebm.com/)

### Positive control
SK-BR-3 cell lysate

## References

1. [Run BLAST with](http://www.ebm.com/)  
2. [Run BLAST with](http://www.ebm.com/)
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-ST<sub>A</sub>R antibody (ab180804)
Anti-StAR antibody (ab180804) at 1/500 dilution + SK-BR-3 cell lysate

**Predicted band size:** 32 kDa

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