

For Research Use Only

# STAR Polyclonal antibody

Catalog Number: 12225-1-AP **41 Publications**



## Basic Information

<b>Catalog Number:</b> 12225-1-AP	<b>GenBank Accession Number:</b> BC010550	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul , Concentration: 650 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 6770	<b>Recommended Dilutions:</b> WB 1:500-1:2000 IHC 1:50-1:500 IF 1:50-1:500
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P49675	
<b>Isotype:</b> IgG	<b>Full Name:</b> steroidogenic acute regulatory protein	
<b>Immunogen Catalog Number:</b> AG2862	<b>Calculated MW:</b> 285 aa, 32 kDa	
	<b>Observed MW:</b> 32 kDa	

## Applications

### Tested Applications:

WB, IF, IHC, ELISA

### Cited Applications:

WB, IF, IHC

### Species Specificity:

human, mouse, rat, pig

### Cited Species:

human, goat, rat, mouse, monkey, pig

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

### Positive Controls:

**WB :** pig adrenal gland tissue, human adrenal gland tissue

**IHC :** mouse testis tissue, human liver cancer tissue, human ovary tissue

**IF :** mouse testis tissue,

## Background Information

Steroidogenic acute regulatory protein (StAR) is a key player in acute regulation of hormone-induced steroidogenesis, by facilitating cholesterol transport from cellular stores to inner mitochondria membrane where the cholesterol was converted to pregnenolone. StAR is prevalently expressed in mitochondria of steroid-producing adrenal and gonadal tissue.

## Notable Publications

Author	Pubmed ID	Journal	Application
Yirong Wang	36063102	Pharm Biol	WB
Jinzhao Zhou	35999762	Ecotoxicol Environ Saf	WB
Jun Li	36338128	Front Bioeng Biotechnol	WB

## Storage

### Storage:

Store at -20°C. Stable for one year after shipment.

### Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

**\*\*\* 20ul sizes contain 0.1% BSA**

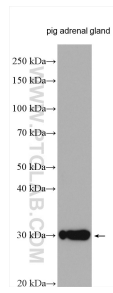
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

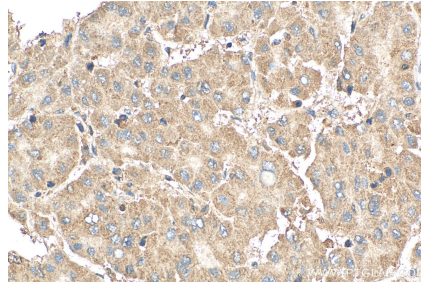
E: proteintech@ptglab.com  
W: ptglab.com

**This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.**

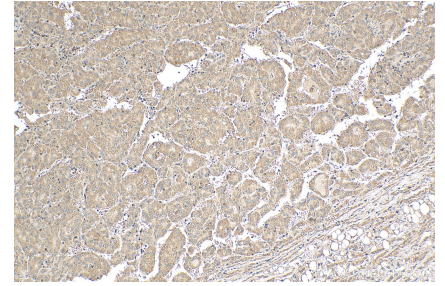
## Selected Validation Data



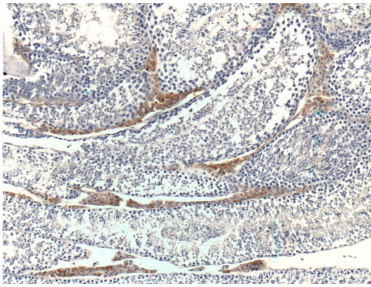
Pig adrenal gland lysates were subjected to SDS PAGE followed by western blot with 12225-1-AP (STAR antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.



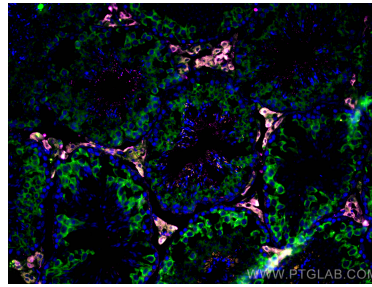
Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 12225-1-AP (STAR antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 12225-1-AP (STAR antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse testis tissue slide using 12225-1-AP (STAR Antibody) at dilution of 1:200 (under 10x lens).



Immunofluorescent analysis of (4% PFA) fixed mouse testis tissue using STAR antibody (12225-1-AP) at dilution of 1:200 and CoraLite® 647-conjugated AffiniPure F(ab, CoraLite® Plus 488 BOULE antibody (CL488-13720, green), CoraLite® 555 TNP1 antibody (CL555-17178, orange).