

For Research Use Only

# STAR Recombinant antibody

Catalog Number: 80751-1-RR **2 Publications**



## Basic Information

<b>Catalog Number:</b> 80751-1-RR	<b>GenBank Accession Number:</b> BC010550	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ul , Concentration: 500 ug/ml by Nanodrop;	<b>GeneID (NCBI):</b> 6770	<b>CloneNo.:</b> 5M6
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P49675	<b>Recommended Dilutions:</b> WB 1:2000-1:10000 IHC 1:250-1:1000 IF-P 1:50-1:500
<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

<b>Tested Applications:</b> WB, IHC, IF-P, ELISA	<b>Positive Controls:</b>
<b>Cited Applications:</b> WB, IF	<b>WB :</b> human testis tissue, K-562 cells, pig adrenal gland tissue, human adrenal gland tissue, rat testis tissue, rat adrenal gland tissue
<b>Species Specificity:</b> human, mouse, rat, pig	<b>IHC :</b> mouse testis tissue,
<b>Cited Species:</b> human, mouse	<b>IF-P :</b> mouse testis tissue,
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	

## 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
Yuwei Duan	38643161	Cell Commun Signal	WB,IF
Xiu-Liang Li	37207578	Ecotoxicol Environ Saf	WB

## Storage

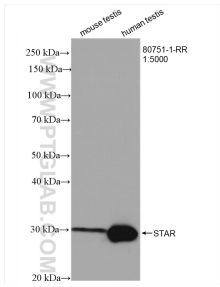
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
**Aliquoting is unnecessary for -20°C storage**

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

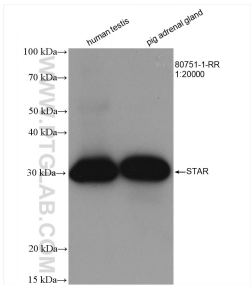
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

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

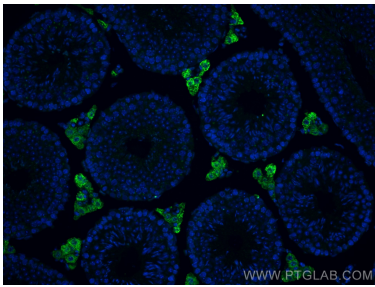
Selected Validation Data



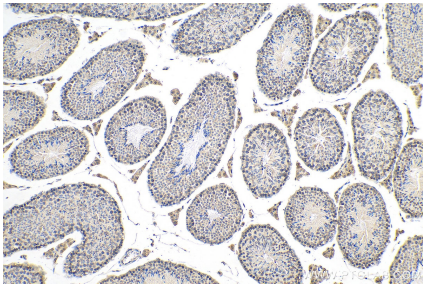
Various lysates were subjected to SDS PAGE followed by western blot with 80751-1-RR (STAR antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



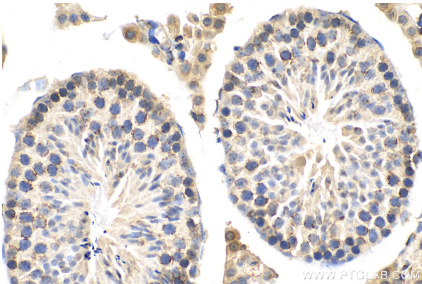
Various lysates were subjected to SDS PAGE followed by western blot with 80751-1-RR (STAR antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



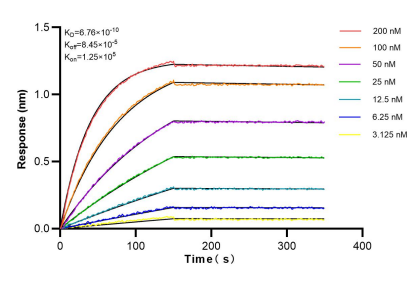
Immunofluorescent analysis of (4% PFA) fixed mouse testis tissue using STAR antibody (80751-1-RR, Clone: 5M6) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Immunohistochemical analysis of paraffin-embedded mouse testis tissue slide using 80751-1-RR (STAR antibody) at dilution of 1:500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse testis tissue slide using 80751-1-RR (STAR antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Bilayer interferometry (BLI) kinetic assays of 80751-1-RR against Human STAR were performed. The affinity constant is 0.676 nM.