

For Research Use Only

STAR Polyclonal antibody

Catalog Number: 12225-1-AP

61 Publications



Basic Information

Catalog Number:

12225-1-AP

Concentration:

650 ug/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG2862

GenBank Accession Number:

BC010550

GeneID (NCBI):

6770

UNIPROT ID:

P49675

Full Name:

steroidogenic acute regulatory protein

Calculated MW:

285 aa, 32 kDa

Observed MW:

32 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:2000

IHC 1:50-1:500

IF-P 1:50-1:500

IF-Fro 1:50-1:500

Applications

Tested Applications:

WB, IHC, IF-P, IF-Fro, ELISA

Cited Applications:

WB, IHC, IF

Species Specificity:

human, mouse, rat, pig

Cited Species:

human, mouse, rat, pig, monkey, goat

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-P : mouse testis tissue,

IF-Fro : 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

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

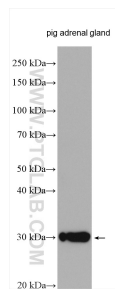
T: 4006900926

E: Proteintech-CN@ptglab.com

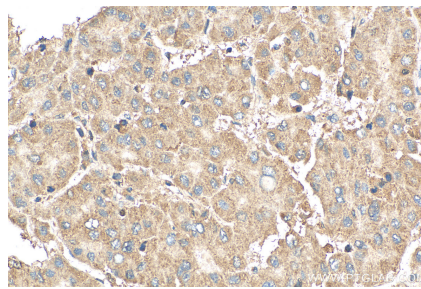
W: ptgcn.com

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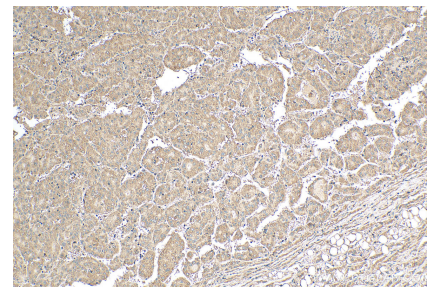
Selected Validation Data



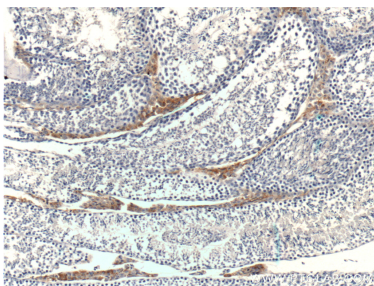
Pig adrenal gland lysates were subjected to SDS PAGE followed by western blot with 12225-1-AP (STAR antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.



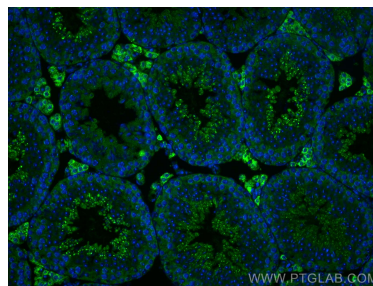
Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 12225-1-AP (STAR antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



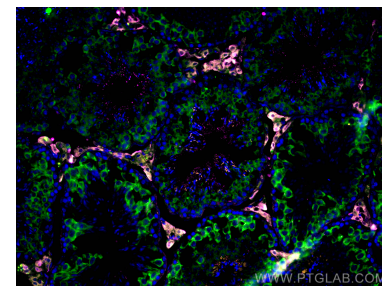
Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 12225-1-AP (STAR antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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 paraffin-embedded mouse testis tissue using STAR antibody (12225-1-AP) at dilution of 1:200 and CoraLite® 488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed frozen OCT-embedded mouse testis tissue using 12225-1-AP (STAR antibody) at dilution of 1:400 and CoraLite® 647-conjugated F(ab, CoraLite® 555 CL555-17178 (TNP1 antibody, orange) and CoraLite® Plus 488 CL488-13720 (BOULE antibody, green).