

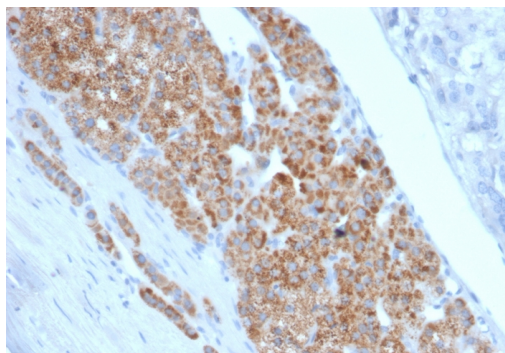
## StAR (Steroidogenic Acute Regulator) (Leydig Cell Marker)

Mouse Monoclonal Antibody [Clone STAR/2140]

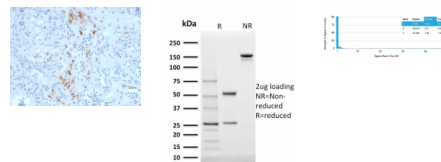
Catalog No	Format	Size	Price (USD)
6770-MSM3-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug	219.00
6770-MSM3-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug	499.00
6770-MSM3-P1ABX	Purified Ab WITHOUT BSA and Azide at 1.0mg/ml	100 ug	499.00

Human Entrez Gene ID	6770
Human SwissProt	P49675
Human Unigene	521535
Human Gene Symbol	STAR
Human Chromosome Location	8p11.23
Synonyms	Cholesterol trafficker; Luteinizing hormone induced protein; Mitochondrial steroid acute regulatory protein; StAR; StAR related lipid transfer (START) domain containing 1; StARD1; START domain-containing protein 1; Steroid acute regulatory protein; Steroidogenic acute regulator (STAR); Steroidogenic acute regulatory protein mitochondrial

Immunogen	Recombinant fragment (around aa 39-108) of human STAR protein (exact sequence is proprietary)
Host / Ig Isotype	Mouse / IgG2b, kappa
Mol. Weight of Antigen	30kDa
Cellular Localization	Cytoplasmic (Mitochondria)
Species Reactivity	Human.
Positive Control	K-562 cells. Adrenal or Testicular Carcinoma.



Formalin-fixed, paraffin-embedded human Adrenal Gland stained with StAR Mouse Monoclonal Antibody (STAR/2140).



### Specificity & Comments

Steroidogenic Acute Regulatory Protein (STAR) controls the rate-limiting step of steroidogenesis by translocating cholesterol from the outer mitochondrial membrane to the inner membrane where it is later cleaved to pregnenolone. It is primarily present in steroid-producing cells, including Leydig cells in the testis, theca cells and luteal cells in the ovary and adrenal cells in the adrenal cortex. Due to low levels of pregnenolone, seminomas and Leydig cell tumors display no specific STAR staining. Therefore, STAR antibody may assist in differentiating sex cord stromal tumors (SCST), seminomas and embryonal carcinomas.

### Known Applications & Suggested Dilutions

Immunohistochemistry (Formalin-fixed) (1-2ug/ml for 30 min at RT) (Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95&degC followed by cooling at RT for 20 minutes)  
Optimal dilution for a specific application should be determined.

### Key References

- Pollack SE, et al. J Clin Endocrinol Metab. 1997; 82:4343-51.
- Lin, D., Sugawara, T., Strauss, J.F., 3rd, Clark, B.J., Stocco, D.M., Saenger, P., Rogol, A. and Miller, W.L. 1995. Role of steroidogenic acute regulatory protein in adrenal and gonadal steroidogenesis. Science 267: 1828-1831.

### Supplied As

200ug/ml of Ab Purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.

### Storage and Stability

Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

### Limitations

This antibody is available for research use only and is not approved for use in diagnosis.

### Warranty

There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.