

Mouse StAR (Steroidogenic Acute Regulator) Monoclonal Antibody | anti-STAR antibody

StAR (Steroidogenic Acute Regulator) (Leydig Cell Marker)

CATALOG # AAA214693	HOST Mouse	REACTIVITY Human. Others not known.	APPLICATIONS Immunohistochemistry
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PRODUCT SYNONYMS

StAR (Steroidogenic Acute Regulator); Monoclonal Antibody; StAR (Steroidogenic Acute Regulator) (Leydig Cell Marker); 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; anti-STAR antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human. Others not known.
Clonality	Monoclonal
Isotype	IgG1, kappa
Clone Number	STAR/2154
Specificity	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.
Form/Format	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.
Sequence Length	285
Applicable Applications for anti-STAR antibody	IHC (Immunohistochemistry)
Immunogen	Recombinant fragment (around aa 39-108) of human STAR protein
Cellular Localization	Cytoplasmic (Mitochondria)
Hu-chromosome Location	8p11.23
Positive Control	K-562 cells. Adrenal or Testicular Carcinoma

IMAGES



Application Data

Analysis of Protein Array containing more than 19, 000 full-length human proteins using StAR Mouse Monoclonal Antibody (STAR/2154). Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProtTM array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If targets on HuProtTM are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-score. S-score therefore represents the relative target specificity of a MAb to its intended target. A MAb is considered to specific to its intended target, if the MAb has an S-score of at least 2.5. For example, if a MAb binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that MAb to protein X is equal to 29.



SDS_PAGE

SDS-PAGE Analysis Purified StAR Mouse Monoclonal Antibody (STAR/2154).Confirmation of Integrity and Purity of Antibody.



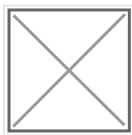
IHC (Immunohistochemisry)

Formalin-fixed, paraffin-embedded human Testicular Carcinoma stained with StAR Mouse Monoclonal Antibody (STAR/2154).



IHC (Immunohiostchemistry)

Formalin-fixed, paraffin-embedded human Testicular Carcinoma stained with StAR Mouse Monoclonal Antibody (STAR/2154).



IHC (Immunohistochemistry)

Formalin-fixed, paraffin-embedded human Adrenal Gland stained with StAR Mouse Monoclonal Antibody (STAR/2154).

ADDITIONAL INFORMATION

References	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. Pollack SE, et al. J Clin Endocrinol Metab. 1997; 82:4343-51.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	56243551
NCBI GeneID	6770
NCBI Accession #	NP_000340.2
NCBI GenBank Nucleotide #	NM_000349.2
UniProt Accession #	P49675; Q16396
Molecular Weight	30kDa
NCBI Official Full Name	steroidogenic acute regulatory protein, mitochondrial
NCBI Official Synonym Full Names	steroidogenic acute regulatory protein
NCBI Official Symbol	STAR
NCBI Official Synonym Symbols	STARD1
NCBI Protein Information	steroidogenic acute regulatory protein, mitochondrial

UniProt Protein Name	Steroidogenic acute regulatory protein, mitochondrial
UniProt Gene Name	STAR
UniProt Synonym Gene Names	STARD1; StAR; StARD1

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/star-steroidogenic-acute-regulator-antibody-clone-star-2154-immunohistochemistry-elisa/214693>