Datasheet for ABIN6940666

anti-STAR antibody (AA 39-108)

4 Images

Go to Product page

Overview

Quantity:	100 µg
Target:	STAR
Binding Specificity:	AA 39-108
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This STAR antibody is un-conjugated
Application:	Immunohistochemistry (IHC), Staining Methods (StM)

Product Details

Immunogen:	Recombinant fragment (around aa 39-108) of human STAR protein (exact sequence is proprietary)
Clone:	STAR-2140
Isotype:	IgG2b kappa
Purification:	Purified by Protein A/G

Target Details

Target:	STAR
Alternative Name:	STAR (STAR Products)
Background:	Steroidogenic Acute Regulatory Protein (STAR) controls the rate-limiting step of

Target Details

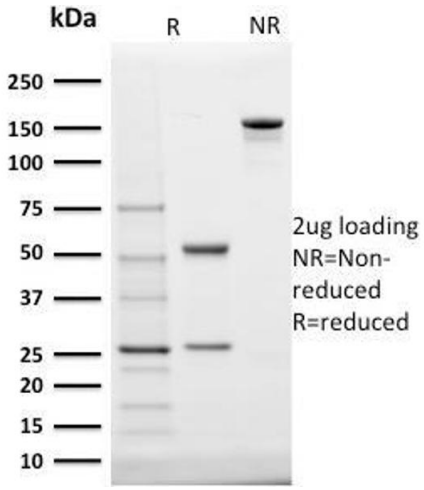
	steroidegenesis by translocating cholesterol from the outer mitochondrial membrane to the inner membrane where it is later cleaved to pregnenolone.It is primarily present in steroid-producing cells, including Leydig cells in the testis, theca cells and luteal cells in the ovary and adrenal cells in the 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.
Molecular Weight:	30kDa
Gene ID:	6770
UniProt:	P49675
Pathways:	Metabolism of Steroid Hormones and Vitamin D, Response to Growth Hormone Stimulus, C21-Steroid Hormone Metabolic Process, Cellular Response to Molecule of Bacterial Origin, Carbohydrate Homeostasis

Application Details

Application Notes:	Positive Control: K-562 cells. Adrenal or Testicular Carcinoma. Known Application: Immunohistochemistry (Formalin-fixed) (1-2 µg/mL for 30 min at RT)(Staining of formalin-fixed tissues requires boiling tissue sections in 10 mM Citrate Buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 minutes)Optimal dilution for a specific application should be determined.
Restrictions:	For Research Use only

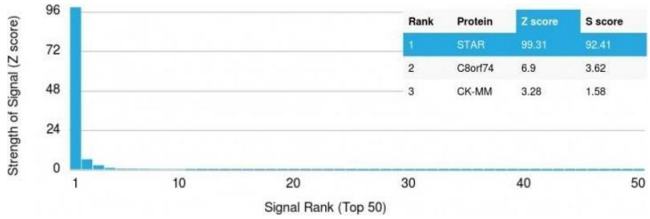
Handling

Concentration:	200 µg/mL
Buffer:	10 mM PBS with 0.05 % BSA & 0.05 % azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-80 °C
Storage Comment:	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.
Expiry Date:	24 months



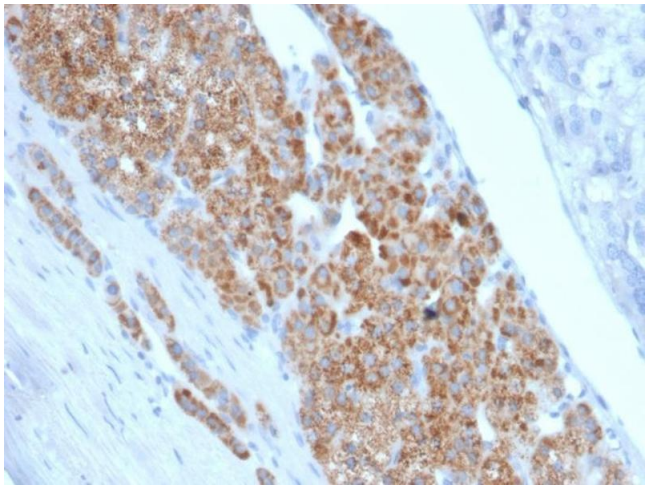
SDS-PAGE

Image 1. SDS-PAGE Analysis Purified StAR Mouse Monoclonal Antibody (STAR/2140). Confirmation of Integrity and Purity of Antibody.



Protein Array

Image 2. Analysis of Protein Array containing more than 19,000 full-length human proteins using StAR Mouse Monoclonal Antibody (STAR/2140). 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.



Immunohistochemistry

Image 3. Formalin-fixed, paraffin-embedded human Adrenal Gland stained with StAR Mouse Monoclonal Antibody (STAR/2140).

Please check the product details page for more images. Overall 4 images are available for ABIN6940666.

