

Rabbit STAR Polyclonal Antibody | anti-STAR antibody

STAR Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA325973	Rabbit	Human, Mouse, Rat	ELISA, Immunohistochemistry, Western Blot

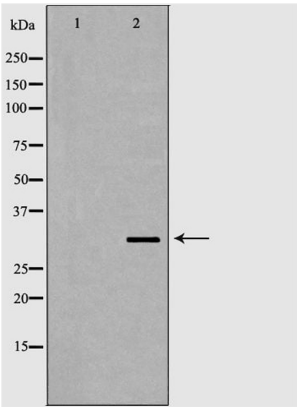
PRODUCT SYNONYMS

STAR; Polyclonal Antibody; STAR Antibody; Cholesterol trafficker; Luteinizing hormone induced protein; mitochondrial; Mitochondrial steroid acute regulatory protein; StAR; StAR related lipid transfer (START) domain containing 1; STAR_HUMAN; StARD1; START domain containing 1; START domain containing protein 1; START domain-containing protein 1; Steroid acute regulatory protein; Steroidogenic acute regulator; Steroidogenic acute regulatory protein; Steroidogenic acute regulatory protein mitochondrial; anti-STAR antibody

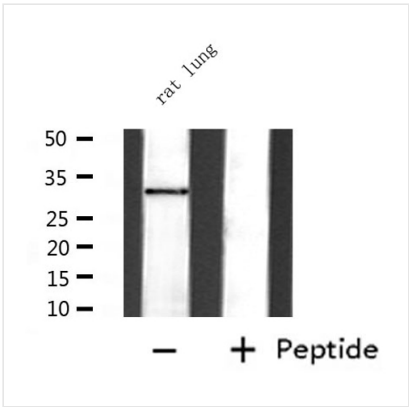
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	STAR antibody detects endogenous levels of total STAR
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	285
Applicable Applications for anti-STAR antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human STAR
Subcellular Location	Mitochondrion.
Tissue Specificity	Expressed in gonads, adrenal cortex and kidney.
Predicted Cross Reactivity	Pig, Zebrafish, Bovine, Horse, Sheep, Rabbit, Dog, Chicken, Xenopus
Similarity	Pig (100%), Zebrafish (89%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (100%), Dog (100%), Chicken (100%), Xenopus (89%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

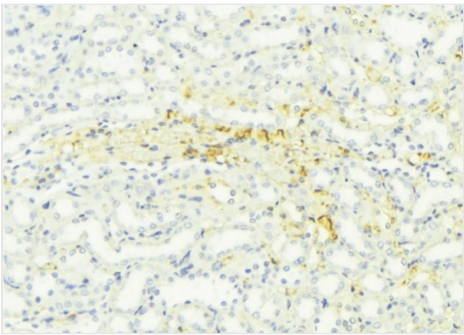
IMAGES



WB (Western Blot)
Western blot analysis of SK-BR-3 lysate using STAR antibody. The lane on the left is treated with the antigen-specific peptide.



WB (Western Blot)
Western blot analysis of extracts from rat lung, using STAR Antibody.



IHC (Immunohistochemistry)
AAA325973 at 1/100 staining Mouse kidney tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.

ADDITIONAL INFORMATION

Related Product Information for anti-STAR antibody

Description: Steroidogenic acute regulatory protein (StAR) plays a significant role in cholesterol transport from the cytoplasmic outer membrane to the inner mitochondrial membrane (1). The 37 kDa precursor is cleaved to generate an active 28 kDa protein capable of facilitating cholesterol metabolism into pregnenolone (2, 3). StAR is prevalently expressed in mitochondria of steroid-producing adrenal and gonadal tissue (3). Abnormalities in StAR gene expression are impacted in autosomal Lipoid Congenial Adrenal Hyperplasia (LCAH) resulting in defects in pregnenolone and cortisol synthesis (4). The mechanism of cholesterol binding to StAR has yet to be elucidated (4).
Function: Plays a key role in steroid hormone synthesis by enhancing the metabolism of cholesterol into pregnenolone. Mediates the transfer of cholesterol from the outer mitochondrial membrane to the inner mitochondrial membrane where it is cleaved to pregnenolone.
Subunit Structure: May interact with TSPO.

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	Observed: 32 kDa Predicted: 32 kDa

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/polyclonal/star-antibody-immunohistochemistry-western-blot-elisa/325973>