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UNITED STATES

OriGene EU

SP5227P

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Polyclonal Antibody to StAR - Aff - Purified

Alternate names: StARD1

Catalog No.: SP5227P

Quantity: 0.1 mg

Concentration: 1.0 mg/ml

Background: Steroid hormone biosynthesis is acutely regulated by pituitary trophic hormones and other

steroidogenic stimuli. This regulation requires the synthesis of a protein whose function is

to translocate cholesterol from the outer to the inner mitochondrial membrane in

steroidogenic cells, the rate-limiting step in steroid hormone formation. The steroidogenic acute regulatory (StAR) protein is an indispensable component in this process. StAR is expressed in steroidogenic tissues in response to agents that stimulate steroid production, and mutations in the StAR gene result in congenital lipoid adrenal hyperplasia, a disease in which steroid hormone biosynthesis is severely compromised. The mechanism by which StAR mediates cholesterol transfer in the mitochondria has not been fully characterized. However, the tertiary structure of the START domain of a StAR homolog has been solved, and identification of a cholesterol-binding hydrophobic tunnel within this domain raises

the possibility that StAR acts as a cholesterol-shuttling protein.

Host: Rabbit

Immunogen: Recombinant StAR protein

Format: State: Liquid IgG fraction

Purification: Affinity chromatography

Buffer System: PBS containing 1 mg/ml BSA as stabilizer and 0.05% sodium azide as

preservative

Applications: Immunohistochemistry on paraffin sections.

Western blot: 1/1,000. Detects an ~30 kDa protein (tested with rat adrenal gland tissue

extracts).

Other applications not tested. Optimal dilutions are dependent on conditions and should

be determined by the user.

Specificity: SP5227P reats with steroidogenic acute regulatory (StAR) protein.

Species: Human, rat. Other species not tested.

Storage: Store (in aliquots) at -20°C. Avoid repeated freezing and thawing.

Shelf life: one year from despatch.

General Readings: J. Biol. Chem. Jul 2006; 281: 21535-21545.

Endocrinology doi:10. 210/en. 2005-0567, Aug 2005. Endocrinology Vol 145(3), 1227-1237, Mar 2004. Endocrinology Vol 145(10), 4775-4780, Sept 2004.

For research and in vitro use only. Not for diagnostic or therapeutic work.

Material Safety Datasheets are available at www.acris-antibodies.com or on request.

Acris Antibodies is now part of the OriGene family. Learn more at www.origene.com



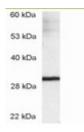
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SP5227P: Polyclonal Antibody to StAR - Aff - Purified

Pictures:

Western blot of StAR on rat adrenal gland extract using SP5227P



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