# SANTA CRUZ BIOTECHNOLOGY, INC.

# StARD6 (V-15): sc-67853



## BACKGROUND

The StARD (steroidogenic acute regulatory protein-related lipid transfer (START) domain containing) family of proteins is comprised of 15 different members. All members contain the characteristic START domain and are believed to play key roles in the metabolism and transport of lipids. The StARD proteins are grouped into six subfamilies based on their START domain sequences. StARD4, StARD5 and StARD6 constitute one subfamily, sharing approximately 30% amino acid identity with each other. StARD6 is specifically expressed in the testis, while StARD4 and StARD5 are widely expressed with predominant expression in kidney and liver. These proteins are believed to function in the intracellular cytosolic transport of sterols and/or the biosynthesis of cholesterol. The expression of StARD5 is not sterol-regulated but can be induced by endomplasmic reticulum (ER) stress. Due to its exclusive tissue expression and its interaction with sterols, StARD6 may function in reproduction and germ cell maturation.

# REFERENCES

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- 4. Rodriguez-Agudo, D., et. al. 2005. Human StarD5, a cytosolic StAR-related lipid binding protein. J. Lipid Res. 46: 1615-1623.
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- Yamada, S., et. al. 2006. Regulation of human StARD4 gene expression under endoplasmic reticulum stress. Biochem. Biophys. Res. Commun. 343: 1079-1085.
- 7. Rodriguez-Agudo, D., et. al. 2006. Localization of StARD5 cholesterol binding protein. J. Lipid Res. 47: 1168-1175.
- 8. Chang, I.Y., et. al. 2007. Immunohistochemical detection of StARD6 in the rat nervous system. Neuroreport 18: 1615-1619.
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# CHROMOSOMAL LOCATION

Genetic locus: Stard6 (mouse) mapping to 18 E2.

#### **RESEARCH USE**

For research use only, not for use in diagnostic procedures.

# SOURCE

StARD6 (V-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of StARD6 of mouse origin.

## PRODUCT

Each vial contains 200  $\mu g$  lgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-67853 P, (100  $\mu$ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

### **APPLICATIONS**

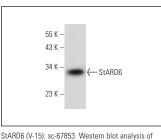
StARD6 (V-15) is recommended for detection of StAR-related lipid transfer protein 6 of mouse origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2  $\mu$ g per 100-500  $\mu$ g of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for StARD6 siRNA (m): sc-63077, StARD6 shRNA Plasmid (m): sc-63077-SH and StARD6 shRNA (m) Lentiviral Particles: sc-63077-V.

Molecular Weight of StARD6: 25 kDa.

Positive Controls: mouse liver extract: sc-2256.

#### DATA



StARD6 (v-15). Sc-67853. Western biot analysis to StARD6 expression in mouse liver tissue extract.

### **STORAGE**

Store at 4° C, \*\*D0 NOT FREEZE\*\*. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

### PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.