

# StARD13 (H-60): sc-135273

## 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. StARD8, StARD12 and StARD13 constitute one subfamily, namely the Rho GAP START group. StARD13, also known as DLC-2 (deleted in liver cancer protein 2) or GT650, is a Rho GAP protein specific for Rho A and Cdc42. StARD13 contains one Rho GAP domain, one SAM (sterile  $\alpha$  motif) domain and one START domain. It localizes to the mitochondrion and cytoplasmic speckles in close association with lipid droplets, suggesting an additional function for StARD13 in mitochondrial lipid transport. StARD13 is ubiquitously expressed but is often deleted in hepatocellular and breast cancer cells, implying that StARD13 also acts as a tumor suppressor.

## REFERENCES

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- Hatch, G.M., et al. 2007. StARD13(DLC-2) RhoGap mediates ceramide activation of phosphatidylglycerolphosphate synthase and drug response in Chinese hamster ovary cells. *Mol. Biol. Cell* 19: 1083-1092.
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- Kwan, J.J. and Donaldson, L.W. 2007. The NMR structure of the murine DLC-2 SAM domain reveals a variant fold that is similar to a four-helix bundle. *BMC Struct. Biol.* 7: 34-34.

## CHROMOSOMAL LOCATION

Genetic locus: STARD13 (human) mapping to 13q13.1; Stard13 (mouse) mapping to 5 G3.

## SOURCE

StARD13 (H-60) is a rabbit polyclonal antibody raised against amino acids 1-60 mapping at the N-terminus of StARD13 of human origin.

## PRODUCT

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

## APPLICATIONS

StARD13 (H-60) is recommended for detection of StARD13 of mouse, rat and human 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).

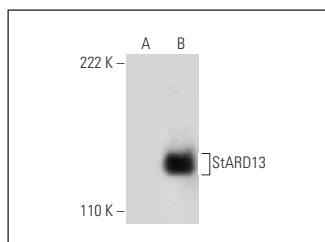
StARD13 (H-60) is also recommended for detection of StARD13 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for StARD13 siRNA (h): sc-63070, StARD13 siRNA (m): sc-63071, StARD13 shRNA Plasmid (h): sc-63070-SH, StARD13 shRNA Plasmid (m): sc-63071-SH, StARD13 shRNA (h) Lentiviral Particles: sc-63070-V and StARD13 shRNA (m) Lentiviral Particles: sc-63071-V.

Molecular Weight of StARD13: 125 kDa.

Positive Controls: StARD13 (m): 293T Lysate: sc-123813.

## DATA



StARD13 (H-60): sc-135273. Western blot analysis of StARD13 expression in non-transfected: sc-117752 (A) and mouse StARD13 transfected: sc-123813 (B) 293T whole cell lysates.

## STORAGE

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

## RESEARCH USE

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

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) or our catalog for detailed protocols and support products.



Try **StARD13 (H-10): sc-377054**, our highly recommended monoclonal alternative to StARD13 (H-60).