

DsbA-L Antibody

Rabbit polyclonal antibody Catalog # AN1188

Specification

DsbA-L Antibody - Product Information

Application Primary Accession Host Clonality Calculated MW WB <u>O9DCM2</u> Rabbit polyclonal 25 KDa

DsbA-L Antibody - Additional Information

Target/Specificity Full length recombinant mouse DsbA-L protein.

Dilution WB~~ 1:2000

Format serum

Antibody Specificity

Specific for the ~25 kDa DsbA-L protein in Western blots of 3T3-L1adipocytes and mouse white and brown adipose tissue lysate samples. It is suggested that youadd 1% BSA to the antibody dilution buffer.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions DsbA-L Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Shipping Blue Ice

DsbA-L Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- <u>Western Blot</u>
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation



Flow Cytomety

<u>Cell Culture</u>

DsbA-L Antibody - Images



Western blot of mouse adipose tissue showing specificimmunolabeling of the \sim 25k DsbA-L protein.

DsbA-L Antibody - Background

Disulfide-bond-A oxidoreductase-like protein (DsbA-L, previously named as GST Kappa) is an adiponectin-interacting protein. DsbA-L is highly expressed in adipose tissue, and its expression level is negatively correlated with obesity in mice and humans. DsbA-L expression in 3T3-L1 adipocytes is stimulated by the insulin sensitizer rosiglitazone and inhibited by the inflammatory cytokine TNFalpha. Polymorphism of DsbA-L gene has recently been implicated in insulin secretion and body fat distribution (Gao F et al., 2009). Overexpression of DsbA-L promotes adiponectin multimerization while suppressing DsbA-L expression by RNAi markedly and selectively reduces adiponectin levels and secretion in 3T3-L1 adipocytes. Recent studies identify DsbA-L as a key regulator for adiponectin biosynthesis (Liu et al., 2008).

DsbA-L Antibody - References

Polymorphism of DsbA-L gene associates with insulin secretion and body fat distribution in Chinese population. (2009) Gao F, Fang Q, Zhang R, Lu J, Lu H, Wang C, Ma X, Xu J, Jia W, Xiang K. Endocr J. Jun;56(3):487-94.

Liu et al, (2008) A disulfide-bond A oxidoreductase-like protein (DsbA-L) regulates adiponectin multimerization. Proc Natl Acad Sci USA, 105, 18302-18307.

Wang A, Liu M, Liu X, Dong LQ, Glickman RD, Slaga TJ, Zhou Z, Liu F (2011) Up-regulation of Adiponectin by Resveratrol: THE ESSENTIAL ROLES OF THE Akt/FOXO1 AND AMPACTIVATED PROTEIN KINASE SIGNALING PATHWAYS AND DsbA-L. J Biol Chem. Jan 7;286(1):60-6.