



PhosphoSolutions®
Antibodies that work™

Colorado Biosciences Park
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Anti-DsbA-L

Catalog Number: 465-DsbA-L

Size: 100 µL

Product Description: Rabbit polyclonal antibody

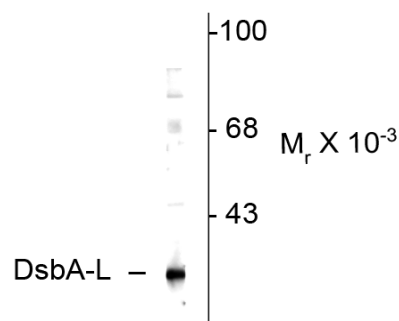
Applications: **WB:** 1:2000 **IHC:** 1:200

Antigen: Full length recombinant mouse DsbA-L protein.

Species reactivity: The antibody has been directly tested for reactivity in mouse and human. Other species have not been tested.

Biological Significance: 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).

Anti-DsbA-L



Western blot of mouse adipose tissue showing specific immunolabeling of the ~ 25k DsbA-L protein.

Purification Method: serum

WB = Western Blot **ICC** = Immunocytochemistry **IP** = Immunoprecipitation

Packaging: Liquid in 40% glycerol.

Storage and Stability: Store at -20°C in undiluted aliquots; stable for at least 1 year after date of receipt. Avoid freeze/thaw cycles.

Shipment: Domestic - Blue Ice; International - Blue Ice.

For Research Use Only.

Antibody Specificity: Specific for the ~25 kDa DsbA-L protein in Western blots of 3T3-L1 adipocytes and mouse white and brown adipose tissue lysate samples. It is suggested that you add 1% BSA to the antibody dilution buffer.

Quality Control Tests: Western blots performed on each lot.

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 AMP-ACTIVATED PROTEIN KINASE SIGNALING PATHWAYS AND DsbA-L. *J Biol Chem.* Jan 7;286(1):60-6.

WB = Western Blot **IHC** = Immunohistochemistry

Packaging: Liquid in 40% glycerol.

Storage and Stability: Store at -20°C in undiluted aliquots; stable for at least 1 year after date of receipt. Avoid freeze/thaw cycles.

Shipment: Domestic - Blue Ice; International - Blue Ice or Dry Ice.

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