

**AP31632SU-N****Polyclonal Antibody to DsbA-L - Serum****Alternate names:**

Disulfide-bond-A oxidoreductase-like protein

**Quantity:**

0.1 ml

**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).

**Host:**

Rabbit

**Immunogen:**

Full length recombinant Mouse DsbA-L protein.

**Format:****State:** Liquid Serum in 40% Glycerol.**Applications:****Western Blot:** 1/1000.**Immunohistochemistry:** 1/200.

Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

**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.

**Species Reactivity:****Tested:** Human and Mouse.**Storage:**Store the antibody undiluted (in aliquots) at -20°C.  
Avoid repeated freezing and thawing.  
Shelf life: one year from despatch.**Product Citations:****Originator or purchased from resellers:**

1. Wang A, Liu M, Liu X, Dong LQ, Glickman RD, Slaga TJ, et al. 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*. 2011 Jan 7;286(1):60-6. doi: 10.1074/jbc.M110.188144. Epub 2010 Oct 27. PubMed PMID: 20980258.

**General Readings:**

1. Gao F, Fang Q, Zhang R, Lu J, Lu H, Wang C, et al. Polymorphism of DsbA-L gene associates with insulin secretion and body fat distribution in Chinese population. *Endocr J*. 2009;56(3):487-94. Epub 2009 Feb 19. PubMed PMID: 19225211.

2. Liu M, Zhou L, Xu A, Lam KS, Wetzel MD, Xiang R, et al. A disulfide-bond A oxidoreductase-like protein (DsbA-L) regulates adiponectin multimerization. *Proc Natl Acad Sci U S A*. 2008 Nov 25;105(47):18302-7. doi: 10.1073/pnas.0806341105. Epub 2008 Nov 14. PubMed PMID: 19011089.

## Pictures:

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

