POLYCLONAL ANTIBODY



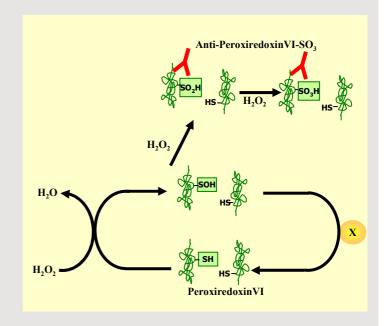
Anti-PeroxiredoxinVI-SO₃

Background: Peroxiredoxin VI (Prx VI, 1-Cys Prx) is a member of Peroxiredoxin Family, an antioxidant enzyme detoxifies reactive oxygen species and has a cysteine at their active site. Six isoforms (Prx I to VI) of Prx exist in all eukaryotic cells. These isoforms are classified into three subgroups (2-Cys, atypical 2-Cys, and 1-Cys). Prx VI modulates various receptorsignaling pathways and protects cells from cell death induced by oxidative stress. The active site cysteine(Cys47) is oxidized to cysteine sulfenic acid(Cys47-SOH) by H2O2. However, the resulting Cys⁴⁷-SOH does not form a disulfide bond because of unavailability of another Cys-SH nearby. It can be reduced by nonphysiological thiols such as DDT but is not transformed by Thioredoxin/Thioredoxin Reductase Occasionally, the intermediate is hyperoxidized to sulfinic or sulfonic acid, resulting in inactivation of peroxidase activity.

Immunogen : Sulfonylated peptide(KLH coupled) corresponding to the active site sequence common to mammalian Prx VI

Host: Rabbit

Composition: PBS coataning 50% glycerol



Species cross reactivity		
Human	Mouse	Rat
+	NT	NT

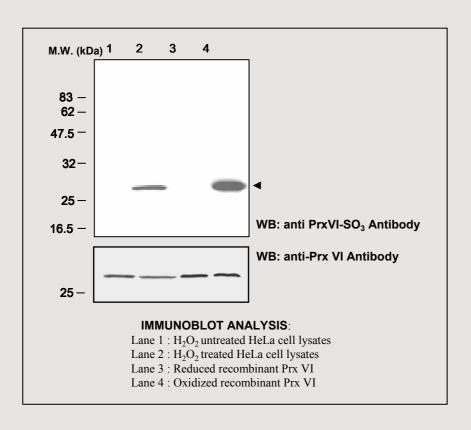
Size: 100ul

Specificity: sulfinic and sulfonic form of

PrxVI

Storage : Store for 1 year at -20 °C from

date of shipment



Applications:

Western blotting (1:2000)

Background Reference:

- (1) Chae, H.Z., et al (1994) Proc.Natl. Acad. Sci. USA 91:7017-7021
- (2) Choi, H.J. et al (1998) Nat. Struct. Biol 5:400-406
- (3) Fisher, A.B., et al (1999) J. Biol. Chem. 274:21326-21334
- (4) Kang, S.W. et al (1998) J. Biol. Chem. 273:6303-6311
- (5) Seo, M.S., (2000) J.Biol. Chem. 275:20346-20354

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