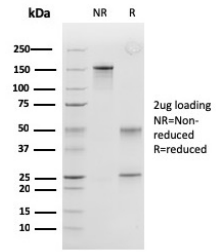
Peroxiredoxin 4 Antibody / PRDX4 [clone CPTC-PRDX4-2] (V8955)

Catalog No.	Formulation	Size
V8955-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V8955-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V8955SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2b, kappa
Clone Name	CPTC-PRDX4-2
Purity	Protein A/G affinity
UniProt	Q13162
Localization	Cytoplasm, Secreted
Applications	ELISA: 1-5ug/ml (order BSA-free format for coating)
Limitations	This Peroxiredoxin 4 antibody is available for research use only.



SDS-PAGE analysis of purified, BSA-free Peroxiredoxin 4 antibody (clone CPTC-PRDX4-2) as confirmation of integrity and purity.

Description

The peroxiredoxin (PRX) family comprises six antioxidant proteins, PRX I, II, III, IV, V and VI, which protect cells from reactive oxygen species (ROS) by preventing the metal-catalyzed oxidation of enzymes. The PRX proteins primarily

utilize thioredoxin as the electron donor for antioxidation, although they are fairly promiscuous with regard to the hydroperoxide substrate. In addition to protection from ROS, peroxiredoxins are also involved in cell proliferation, differentiation and gene expression. PRX I, II, IV and VI show diffuse cytoplasmic localization, while PRX III and V exhibit distinct mitochondrial localization. The human PRX IV gene is expressed in many tissues. It exists as a precursor protein, which is only detected in testis, and aprocessed secreted form. PRX IV is highly expressed in lung cancer and is necessary for the promotion of lung cancer in vitro. Studies have demonstrated that PRX IV positive expression is significantly correlated with recurrences and shorter disease-free survival in patients with early-stage lung squamous cell carcinoma, and therefore can be used as a prognostic marker in lung squamous cell carcinoma.

Application Notes

Optimal dilution of the Peroxiredoxin 4 antibody should be determined by the researcher.

Immunogen

Recombinant full-length human PRDX4 protein was used as the immunogen for the Peroxiredoxin 4 antibody.

Storage

Aliquot the Peroxiredoxin 4 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

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