

Datasheet for ABIN6939084
anti-Peroxiredoxin 4 antibody[Go to Product page](#)

1 Image

Overview

Quantity:	100 µg
Target:	Peroxiredoxin 4 (PRDX4)
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This Peroxiredoxin 4 antibody is un-conjugated
Application:	ELISA, Coating (Coat)

Product Details

Immunogen:	Recombinant full-length human PRDX4 protein
Clone:	CPTC-PRDX4-2
Isotype:	IgG2b
Specificity:	<p>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 antioxidant, 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 a processed 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</p>

Product Details

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.

Cross-Reactivity (Details): Human,

Purification: 200ug/ml of Ab Purified from Bioreactor Concentrate by Protein A/G.

Target Details

Target: Peroxiredoxin 4 (PRDX4)

Alternative Name: PRDX4 ([PRDX4 Products](#))

Background: Antioxidant enzyme AOE372, EC 1.11.1.15, Thioredoxin dependent peroxide reductase A0372, TRANK,Peroxiredoxin 4 (Prognostic Marker for Lung SqCC)
Cellular localisation: Cytoplasm. Secreted.

Molecular Weight: 27kDa

Gene ID: 10549, 83383

UniProt: [Q13162](#)

Application Details

Application Notes: Positive Control: HepG2, HeLa and Jurkat cell lysates. Ovarian carcinoma tissue.
Known Application: ELISA (For coating, order Ab without BSA), Optimal dilution for a specific application should be determined.

Restrictions: For Research Use only

Handling

Concentration: 200 µg/mL

Buffer: Prepared in 10 mM PBS with 0.05 % BSA and 0.05 % azide.

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: 4 °C, -80 °C

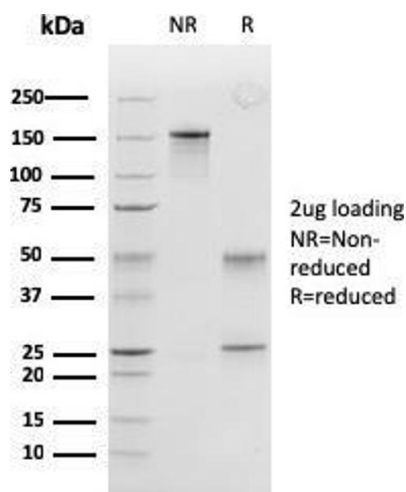
Storage Comment: Antibody with azide - store at 2 to 8 °C. Antibody is stable for 24 months. Non-hazardous. Also

Handling

available WITHOUT BSA & azide at 1.0mg/ml.

Expiry Date: 24 months

Images



SDS-PAGE

Image 1. SDS-PAGE Analysis Purified Peroxiredoxin 4 Monoclonal Antibody (CPTC-PRDX4-2). Confirmation of Purity and Integrity of Antibody.