

Peroxiredoxin 4 (Prognostic Marker for Lung SqCC) Antibody

Mouse Monoclonal Antibody [Clone CPTC-PRDX4-1]

| Catalog No | Format | Size |
|------------------|---|--------|
| 10549-MSM1-P0 | Purified Ab with BSA and Azide at 200ug/ml | 20 ug |
| 10549-MSM1-P1 | Purified Ab with BSA and Azide at 200ug/ml | 100 ug |
| 10549-MSM1-P1ABX | Purified Ab WITHOUT BSA and Azide at 1.0mg/ml | 100 ug |

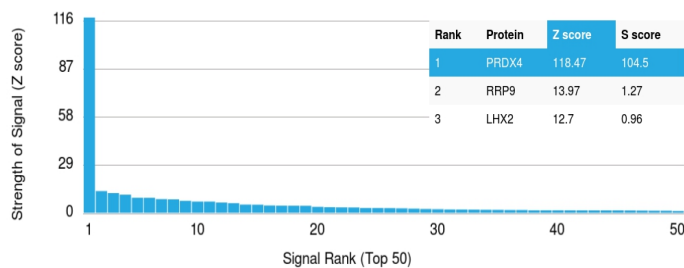
| Applications | Tested Dillution | Note |
|--------------|------------------|------|
| | | |

Product Details

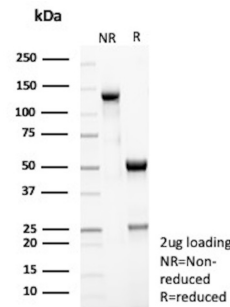
| | |
|-------------------------------|---|
| Clone | CPTC-PRDX4-1 |
| Gene Name | PRDX4 |
| Immunogen | Recombinant full-length human PRDX4 protein |
| Host | Mouse |
| Clonality | Monoclonal |
| Isotype / Light Chain | IgG2a / Kappa |
| Mol. Weight of Antigen | 27kDa |
| Cellular Localization | Cytoplasm, Endoplasmic reticulum |
| Species Reactivity | Human |
| Positive Control | HepG2, HeLa or Jurkat cell lysates. Ovarian carcinoma tissue. |

*Optimal dilution for a specific application should be determined.

Product Images for Peroxiredoxin 4 (Prognostic Marker for Lung SqCC) Antibody



Analysis of Protein Array containing more than 19,000 full-length human proteins using Peroxiredoxin 4 Mouse Monoclonal Antibody (CPTC-PRDX4-1). Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProt™ array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If targets on HuProt™ are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-score. S-score therefore represents the relative target specificity of a MAb to its intended target. A MAb is considered to be specific to its intended target, if the MAb has an S-score of at least 2.5. For example, if a MAb binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that MAb to protein X is equal to 29.



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

Specificity & Comments

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 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 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.

Limitations and Warranty

This antibody is available for research use only and is not approved for use in diagnosis. There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.

Supplied As

200ug/ml of Ab Purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.

Storage and Stability

Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

Research Areas

Cardiovascular, Immunology, Lung Cancer
