

DESCRIPTION

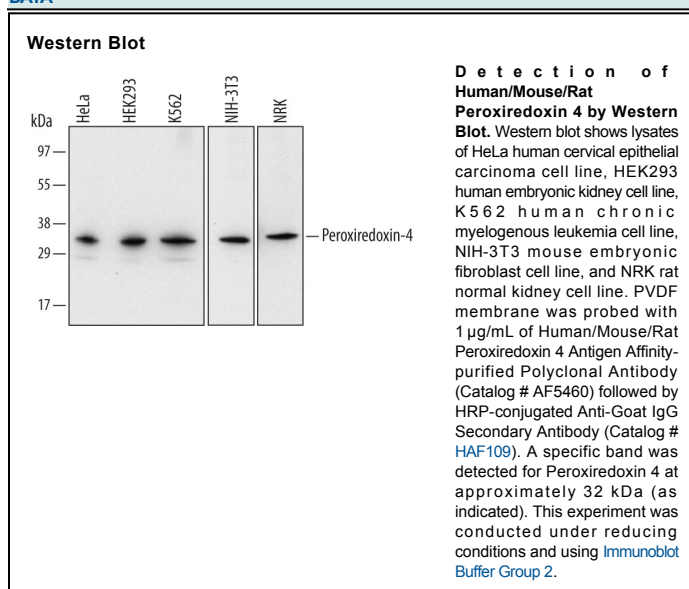
Species Reactivity	Human/Mouse/Rat
Specificity	Detects endogenous human, mouse and rat Peroxiredoxin 4 in Western blots.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human Peroxiredoxin 4 Met1-Asn271 Accession # Q13162
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 µm filtered solution in PBS.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

	Recommended Concentration	Sample
Western Blot	1 µg/mL	See Below

DATA



PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> 12 months from date of receipt, -20 to -70 °C as supplied. 1 month, 2 to 8 °C under sterile conditions after reconstitution. 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

Peroxiredoxin 4 (Prx-IV; also known as PRDX4 and thioredoxin peroxidase AOE372) is a 30-32 kDa, widely expressed cytoplasmic antioxidant enzyme that belongs to the typical 2-Cys class of the TSA/ahpC family of peroxiredoxins. It exists as either a homodimer, or heterodimer with PRDX1. PRDX4 reportedly counteracts p53-mediated generation of ROS, and regulates NFκB via IκB-α. Human PRDX4 is 271 amino acids (aa) in length and contains an N-terminal poly-Leu region (aa 20-30) and a 159 thioredoxin domain (aa 79-237). There is one catalytic cysteine at Cys124. Over amino acids 1-271, human PRDX4 shares 89% aa identity with mouse and rat PRDX4.