

Mouse Peroxiredoxin 6 (PRDX6) ELISA Kit-Sandwich

Cat. No.: EK6F387

Product Type: Animal Immunoassay Kits

Size: 48T;96T

Product Overview

BioVenic Mouse Peroxiredoxin 6 (PRDX6) ELISA Kit-Sandwich is designed for the quantitative determination of Mouse PRDX6 in serum, plasma, tissue homogenate, cell culture supernatant, cell lysate, and other biological fluids using a Sandwich ELISA method. For research use only.

Specifications

Assay Type	ELISA-Sandwich
Specificity	The assay kit is specific for Mouse Peroxiredoxin 6 (PRDX6).
Target Species	Mouse
Species Reactivity	Mouse
Detection Range	78.25-5000 pg/mL
Reproducibility	Intra-Assay: CV < 10%; Inter-Assay: CV < 12%
Assay Time	Around 90 min
Sample Requirement	Serum, plasma, tissue homogenate, cell culture supernatant, cell lysate, and other biological fluids.

Target Information

Peroxiredoxin-6 is a thiol-specific peroxidase responsible for reducing hydrogen peroxide and organic hydroperoxides to water and alcohols, respectively. As a key antioxidant enzyme, PRDX6 eliminates intracellular reactive oxygen species (ROS) such as hydrogen peroxide (H₂O₂), peroxynitrite, and lipid peroxides, thereby helping maintain cellular redox balance. Mice deficient in PRDX6 (PRDX6^{-/-}) are more susceptible to oxidative stress; for instance, their survival rates drop significantly and tissue damage is more severe when exposed to oxidants like paraquat or hydroquinone. In models of liver ischemia-reperfusion (I/R) injury, the absence of PRDX6 results in mitochondrial dysfunction and worsened liver damage, whereas PRDX6 overexpression can mitigate these injuries.

Target/Biomarker	Mouse PRDX6
Target Synonym	1-Cys; AOP2; NSGPx; PRX; aiPLA2; p29; Acidic calcium-independent phospholipase A2; Antioxidant protein 2; Non-selenium glutathione peroxidase; Red blood cells p

age spot 12

Gene ID	11758
UniProt ID	O08709

Shipping and Storage

This product is shipped with gel ice packs. It is recommended to store at 2-8 °C (Up to 6 months).

The product is for research use only. Not for commercial, prophylactic, diagnostic, or therapeutic applications. Please determine the purpose of the product before purchasing. For further information and inquiry, please contact us.