

IHC*easy* PRDX5 Ready-To-Use IHC Kit

Catalog Number: **KHC2224**

General Information

Sample type:
FFPE tissue
Cited sample type:
Reactivity:
Human
Cited Reactivity:

Assay type:
Immunohistochemistry
Primary antibody type:
Mouse Monoclonal
Secondary antibody type:
Polymer-HRP-Goat anti-Mouse

Kit Component

Component	Size	Concentration
Antigen Retrieval Buffer	100 mL	50×
Washing Buffer	100 mL ×2	20×
Blocking Buffer	5 mL	RTU
Primary Antibody	5 mL	RTU
Secondary Antibody	5 mL	RTU
Chromogen Component A	0.2 mL	RTU
Chromogen Component B	4 mL	RTU
Signal Enhancer	5 mL	RTU
Counter Staining Reagent	5 mL	RTU
Mounting Media	5 mL	RTU
Control Slide	1 slide (Optional)	FFPE
Datasheet	1 Copy	
Manual	1 Copy	

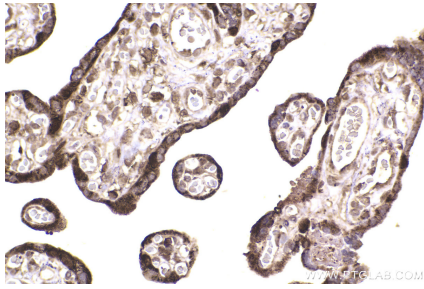
Storage Instructions

All the reagents are stored at 2-8°C. The kit is stable for 6 months from the date of receipt.

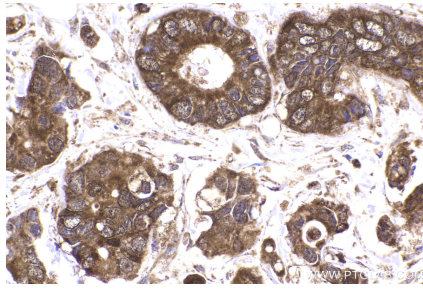
Background

Peroxiredoxin 5 (PRDX5) is a member of a family consisting of six antioxidant enzymes. PRDX5 is ubiquitously expressed in various tissues including mitochondria and peroxisomes, implying that PRDX5 functions as a regulator of the cellular oxidation state. PRDX5 plays a critical role in protecting cells from oxidative stress by inhibiting the accumulation of reactive oxygen species and cell death. PRDX5 has an intensive ROS scavenging activity because it is located in the cytosol and mitochondria. PRDX5 expression was upregulated during adipogenesis and PRDX5 overexpression suppressed adipogenesis by regulating cytosolic and mitochondrial ROS generation.

Selected Validation Data



Immunohistochemical analysis of paraffin-embedded human placenta tissue slide using KHC2224 (PRDX5 IHC Kit).



Immunohistochemical analysis of paraffin-embedded human stomach cancer tissue slide using KHC2224 (PRDX5 IHC Kit).