Datasheet for ABIN7318892

Peroxiredoxin 5 Protein (PRDX5) (His tag)

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Overview

Quantity:	50 µg
Target:	Peroxiredoxin 5 (PRDX5)
Origin:	Human
Source:	Human Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Peroxiredoxin 5 protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human Peroxiredoxin 5/PRDX5 Protein (His Tag)
Sequence:	Met53-Leu214
Characteristics:	Recombinant Human Peroxiredoxin-5 is produced by our Mammalian expression system and the target gene encoding Met53-Leu214 is expressed with a 6His tag at the N-terminus.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.

Target Details

Target:	Peroxiredoxin 5 (PRDX5)
Alternative Name:	Peroxiredoxin 5/PRDX5 (PRDX5 Products)
Background:	Background: Peroxisomes are essential organelles that participate in multiple important metabolic processes, including the β-oxidation of fatty acids, plasmalogen synthesis, and the metabolism of reactive oxygen species (ROS). Peroxiredoxins is overexpressed in breast cancer

Target Details

	tissues to a great extent suggesting that they has a proliferative effect and may be related to cancer development or progression. Peroxiredoxin 5 (PRDX5) is a thioredoxin peroxidase that belongs to the atypical 2-Cys class of the TSA/ahpC family of peroxiredoxins. PRDX5 is a widely expressed mitochondrial antioxidant enzyme that reduces hydrogen peroxide, alkyl hydroperoxides, and peroxynitrite. In human cells, this enzyme is present in the cytosol, mitochondria, peroxisomes, and nucleus. Synonym: Peroxiredoxin-5, PRDX5, Alu corepressor 1, Antioxidant enzyme B166, AOEB166, Liver tissue 2D-page spot 71B, PLP, Peroxiredoxin V, Prx-V, Peroxisomal antioxidant enzyme, TPx type VI, Thioredoxin peroxidase PMP20, Thioredoxin reductase
Molecular Weight:	17.9 kDa
UniProt:	P30044
Pathways:	Cell RedoxHomeostasis

Application Details

Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Please refer to the printed manual for detailed information.
Buffer:	Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4.
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.