Recombinant Human PRDX5 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. PRDX5-2683H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	PRDX5 MS Standard C13 and N15-labeled recombinant protein (NP_857634) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	This gene encodes a member of the peroxiredoxin family of antioxidant enzymes, which reduce hydrogen peroxide and alkyl hydroperoxides. The encoded protein interacts with peroxisome receptor 1 and plays an antioxidant protective role in different tissues under normal conditions and during inflammatory processes. The use of alternate transcription start sites is thought to result in transcript variants that use different in-frame translational start codons to generate isoforms that are targeted to the mitochondrion (isoform L) or peroxisome/cytoplasm (isoform S). Multiple related pseudogenes have been defined for this gene.
Molecular Mass	17.4 kDa
AA Sequence	MGLAGVCALRRSAGYILVGGAGGQSAAAAARRCSEGEWASGGVRSFSRAAAAMA PIKVGDAIPAVEVFEGEPGNKVNLAELFKGKKGVLFGVPGAFTPGCSKVRLLADPTG AFGKETDLLLDDSLVSIFGNRRLKRFSMVVQDGIVKALNVEPDGTGLTCSLAPNIISQ LTRTRPLEQKLISEEDLAANDILDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining

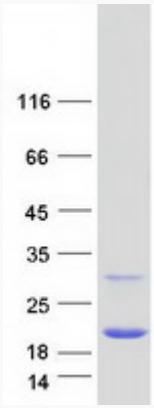
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Stability	Stable for 3 months from receipt of products under proper storage and handling conditions.
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	50 μg/mL as determined by BCA
Storage Buffer	100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name	PRDX5 peroxiredoxin 5 [Homo sapiens (human)]
Official Symbol	PRDX5
Synonyms	PRDX5; peroxiredoxin 5; peroxiredoxin-5, mitochondrial; ACR1; Alu co repressor 1; antioxidant enzyme B166; AOEB166; B166; liver tissue 2D page spot 71B; MGC117264; MGC142283; MGC142285; peroxisomal antioxidant enzyme; PLP; PMP20; PRDX6; PRXV; SBBI10; thioredoxin peroxidase PMP20; TPx type VI; prx-V; peroxiredoxin V; alu corepressor 1; Alu co-repressor 1; thioredoxin reductase; liver tissue 2D-page spot 71B;
Gene ID	25824
mRNA Refseq	NM_181651
Protein Refseq	NP_857634
MIM	606583
UniProt ID	P30044

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SDS-PAGE	

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