

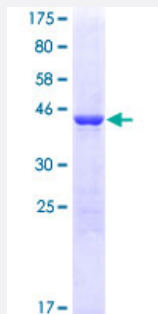
Full-Length

PRDX5 (Human) Recombinant Protein (P01)

Catalog # H00025824-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human PRDX5 full-length ORF (NP_036226.1, 1 a.a. - 214 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MGLAGVCALRRSAGYILVGGAGGQSAAAAARRCSEGEWASGGVRSFSRAAAAMAPIKVGDAIP
AVEVFEGEPGNKVNLAELFKGKKGVLFGVPGAFTPGCSKTHLPGFVEQAEALKAKGVQVVACL
SVNDAFVTGEWGRAHKAEGKVRLADPTGAFGKETDLLLDDSLVSIFGNRRLKRFSMVVQDGM
KALNVEPDGTGLTCSLAPNIISQL

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

48.4

Interspecies Antigen Sequence

Mouse (84); Rat (79)

Preparation Method

[in vitro wheat germ expression system](#)

Purification

Glutathione Sepharose 4 Fast Flow

Quality Control Testing

12.5% SDS-PAGE Stained with Coomassie Blue.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

Storage Instruction

Store at -80°C. Aliquot to avoid repeated freezing and thawing.

Note

Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — PRDX5

Entrez GeneID	25824
GeneBank Accession#	NM_012094.3
Protein Accession#	NP_036226.1
Gene Name	PRDX5
Gene Alias	ACR1, AOEB166, B166, MGC117264, MGC142283, MGC142285, PLP, PMP20, PRDX6, PRX V, SBBI10
Gene Description	peroxiredoxin 5
Omim ID	606583
Gene Ontology	Hyperlink
Gene Summary	This gene encodes a member of the peroxiredoxin family of antioxidant enzymes, which reduce hydrogen peroxide and alkyl hydroperoxides. The encoded protein may play an antioxidant protective role in different tissues under normal conditions and during inflammatory processes. This protein interacts with peroxisome receptor 1. The crystal structure of this protein in its reduced form has been resolved to 1.5 angstrom resolution. This gene uses alternate in-frame translation initiation sites to generate mitochondrial or peroxisomal/cytoplasmic forms. Three transcript variants encoding distinct isoforms have been identified for this gene. [provided by RefSeq]
Other Designations	Alu co-repressor 1 TPx type VI antioxidant enzyme B166 liver tissue 2D-page spot 71B peroxisomal antioxidant enzyme thioredoxin peroxidase PMP20

Disease

- [Alopecia Areata](#)
- [Alzheimer disease](#)
- [Autoimmune Diseases](#)
- [Cognition](#)
- [Coronary Disease](#)
- [Genetic Predisposition to Disease](#)