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PRDX5 Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a partial recombinant PRDX5.
Catalog # AT3424a

Product Information

Application	E
Primary Accession	P30044
Other Accession	NM_012094
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG2a Kappa
Clone Names	3E7
Calculated MW	22086

Additional Information

Gene ID	25824
Other Names	Peroxiredoxin-5, mitochondrial, 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, PRDX5, ACR1
Target/Specificity	PRDX5 (NP_036226, 105 a.a. ~ 214 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	E~~N/A
Format	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Precautions	PRDX5 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

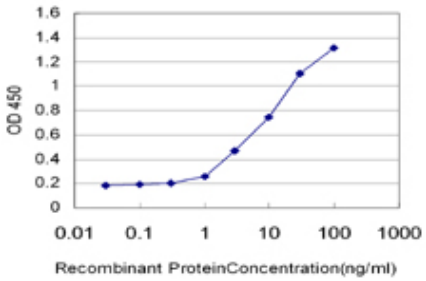
Background

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.

References

Genome-wide association study in alopecia areata implicates both innate and adaptive immunity. Petukhova L, et al. Nature, 2010 Jul 1. PMID 20596022.Defining the human deubiquitinating enzyme interaction landscape. Sowa ME, et al. Cell, 2009 Jul 23. PMID 19615732.Integrated associations of genotypes with multiple blood biomarkers linked to coronary heart disease risk. Drenos F, et al. Hum Mol Genet, 2009 Jun 15. PMID 19336475.Ets regulates peroxiredoxin1 and 5 expressions through their interaction with the high-mobility group protein B1. Shiota M, et al. Cancer Sci, 2008 Oct. PMID 19016754.Oxidative stress, telomere length and biomarkers of physical aging in a cohort aged 79 years from the 1932 Scottish Mental Survey. Starr JM, et al. Mech Ageing Dev, 2008 Dec. PMID 18977241.

Images



Detection limit for recombinant GST tagged PRDX5 is approximately 0.3ng/ml as a capture antibody.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.