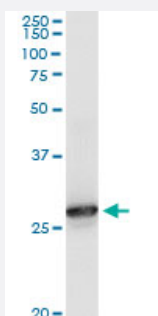


PRDX6 monoclonal antibody (M01), clone 3A10-2A11

Catalog # H00009588-M01

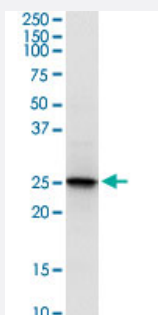
Size 100 ug

Applications



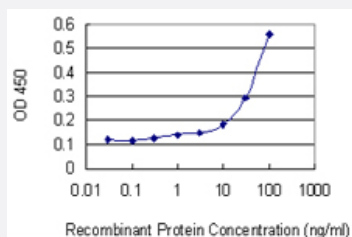
Western Blot (Tissue lysate)

PRDX6 monoclonal antibody (M01), clone 3A10-2A11. Western Blot analysis of PRDX6 expression in human liver.



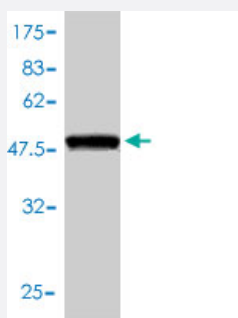
Western Blot (Cell lysate)

PRDX6 monoclonal antibody (M01), clone S1. Western Blot analysis of PRDX6 expression in MCF-7.



Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged PRDX6 is 3 ng/ml as a capture antibody.



Western Blot detection against Immunogen (50.38 KDa) .

Specification

Product Description	Mouse monoclonal antibody raised against a full length recombinant PRDX6.
Immunogen	PRDX6 (AAH35857.1, 1 a.a. ~ 224 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Sequence	MPGGLLLGDVAPNFEANTTVGRIRFHDFLGDSWGILFSHPRDFTPVCTTELGRAAKLAPEFAKRN VKLIALSIDSVEDHLAWSKDINAYNCEETPEKLPFPIDDRNRELAILLGMLDPAEKDEKGMPTAR VVFVFGPDKKLKLSILYPATTGRNFDEILRVVISLQLTAEKRVATPVDWKDGDSVMVLPTIPEEEAK KLFPKGVFTKELPSGKKYLRYTPQP
Host	Mouse
Reactivity	Human
Interspecies Antigen Sequence	Mouse (89); Rat (91)
Isotype	IgG1 kappa
Quality Control Testing	Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (50.38 KDa) .
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

● Western Blot (Tissue lysate)

PRDX6 monoclonal antibody (M01), clone 3A10-2A11. Western Blot analysis of PRDX6 expression in human liver.

[Protocol Download](#)

- Western Blot (Cell lysate)

PRDX6 monoclonal antibody (M01), clone S1. Western Blot analysis of PRDX6 expression in MCF-7.

[Protocol Download](#)

- Western Blot (Recombinant protein)

[Protocol Download](#)

- Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged PRDX6 is 3 ng/ml as a capture antibody.

[Protocol Download](#)

- ELISA

Gene Info — PRDX6

Entrez GeneID [9588](#)

GeneBank Accession# [BC035857](#)

Protein Accession# [AAH35857.1](#)

Gene Name PRDX6

Gene Alias 1-Cys, AOP2, KIAA0106, MGC46173, NSGPx, PRX, aiPLA2, p29

Gene Description peroxiredoxin 6

Omim ID [602316](#)

Gene Ontology [Hyperlink](#)

Gene Summary The protein encoded by this gene is a member of the thiol-specific antioxidant protein family. This protein is a bifunctional enzyme with two distinct active sites. It is involved in redox regulation of the cell; it can reduce H₂O₂ and short chain organic, fatty acid, and phospholipid hydroperoxides. It may play a role in the regulation of phospholipid turnover as well as in protection against oxidative injury. [provided by RefSeq]

Other Designations 1-Cys peroxiredoxin|OTTHUMP00000032693|acidic calcium-independent phospholipase A2|antioxidant protein 2|non-selenium glutathione peroxidase

Publication Reference

- [Relationships between the abundance of 29 proteins and several meat or carcass quality traits in two bovine muscles revealed by a combination of univariate and multivariate analyses.](#)

Brigitte Picard, Arnaud Cougoul, Sébastien Couvreur, Muriel Bonnet.

Journal of Proteomics 2022 Dec; 273:104792.

Application: Array, Bovine, Bovine muscles

- [Protein Array-Based Approach to Evaluate Biomarkers of Beef Tenderness and Marbling in Cows: Understanding of the Underlying Mechanisms and Prediction.](#)

Mohammed Gagaoua, Muriel Bonnet, Brigitte Picard.

Foods (Basel, Switzerland) 2020 Aug; 9(9):E1180.

Application: Reverse Phase Protein Array (RPPA), Human, Human muscle protein

- [Quantification of biomarkers for beef meat qualities using a combination of Parallel Reaction Monitoring- and antibody-based proteomics.](#)

Muriel Bonnet, Julien Soulat, Joanna Bons, Stéphanie Léger, Leanne De Koning, Christine Carapito, Brigitte Picard.

Food Chemistry 2020 Jul; 317:126376.

Application: Array, Bovine, Bovine longissimus thoracis, Bovine semimembranosus

- [Beef tenderness and intramuscular fat proteomic biomarkers: Effect of gender and rearing practices.](#)

Picard B, Gagaoua M, Al Jammal M, Bonnet M.

Journal of Proteomics 2019 Mar; 200:1.

Application: WB-Ti, Bovine, Bovine muscle

- [Global analysis of erythroid cells redox status reveals the involvement of Prdx1 and Prdx2 in the severity of beta thalassemia.](#)

Romanello KS, Teixeira KKL, Silva JPMO, Nagamatsu ST, Bezerra MAC, Domingos IF, Martins DAP, Araujo AS, Lanaro C, Breyer CA, Ferreira RA, Franco-Penteado C, Costa FF, Malavazi I, Netto LES, de Oliveira MA, Cunha AF.

PLoS One 2018 Dec; 13(12):e0208316.

Application: WB, Human, Erythrocytes of patients with β -thalassemia

- [Reverse Phase Protein array for the quantification and validation of protein biomarkers of beef qualities: The case of meat color from Charolais breed.](#)

Gagaoua M, Bonnet M, De Koning L, Picard B.

Meat Science 2018 Jul; 145:308.

Application: WB-Ti, Bovine, Bovine muscle

- [Beef tenderness and intramuscular fat proteomic biomarkers: muscle type effect.](#)

Picard B, Gagaoua M, Al-Jammas M, De Koning L, Valais A, Bonnet M.

PeerJ 2018 Jun; 6:e4891.

Application: WB-Ti, Bovine, Bovine muscle

- [Reverse phase protein arrays for the identification/validation of biomarkers of beef texture and their use for early classification of carcasses.](#)

Gagaoua M, Bonnet M, Ellies-Oury MP, De Koning L, Picard B.

Food Chemistry 2018 Jun; 250:245.

Application: WB-Ti, Bovine, Bovine muscles

- [The study of protein biomarkers to understand the biochemical processes underlying beef color development in young bulls.](#)

Gagaoua M, Terlouw EMC, Picard B.

Meat Science 2017 Jul; 134:18.

Application: Dot, Bovine, Bovine muscle

- [Inverse relationships between biomarkers and beef tenderness according to contractile and metabolic properties of the muscle.](#)

Picard B, Gagaoua M, Micol D, Cassar-Malek I, Hocquette JF, Terlouw CE.

Journal of Agricultural and Food Chemistry 2014 Oct; 62(40):9808.

Application: Dot, Bovine, Bovine muscle

- [Cellular and molecular large-scale features of fetal adipose tissue: is bovine perirenal adipose tissue brown?](#)

Taga H, Chilliard Y, Meunier B, Chambon C, Picard B, Zingaretti MC, Cinti S, Bonnet M.

Journal of Cellular Physiology 2012 Apr; 227(4):1688.

Application: WB-Ti, Bovine, Adipose tissue

- [Functional analysis of beef tenderness.](#)

Guillemin N, Bonnet M, Jurie C, Picard B.

Journal of Proteomics 2011 Dec; 75(2):352.

Application: WB-Ti, Bovine, Bovine tenderness

- [Peroxiredoxin-6?XA potential protein marker for meat tenderness in bovine longissimus thoracis muscle.](#)

Jia X, Veiseth-Kent E, Grove H, Kuziora P, Aass L, Hildrum KI, Hollung K.

Journal of Animal Science 2009 Jul; 87(7):2391.

Application: WB, Bovine, Bovine M. longissimus thoracis biopsies

Pathway

- [Biosynthesis of phenylpropanoids](#)
- [Metabolic pathways](#)
- [Methane metabolism](#)
- [Phenylalanine metabolism](#)
- [Phenylpropanoid biosynthesis](#)
- [Tropane](#)

Disease

- [Coronary Artery Disease](#)
- [Genetic Predisposition to Disease](#)
- [Obesity](#)