ARG57055
anti-Peroxiredoxin 5 antibody [6A10]

Package: 50 µl
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody [6A10] recognizes Peroxiredoxin 5
Tested Reactivity	Hu
Tested Application	FACS, WB
Host	Mouse
Clonality	Monoclonal
Clone	6A10
Isotype	IgG1, kappa
Target Name	Peroxiredoxin 5
Species	Human
Immunogen	Recombinant fragment around aa. 53-214 of Human Peroxiredoxin 5.
Conjugation	Un-conjugated
Alternate Names	PMP20; EC 1.11.1.15; Thioredoxin peroxidase PMP20; ACR1; Prx-V; PLP; PRXV; PRDX6; HEL-S-55; B166; Thioredoxin reductase; Peroxiredoxin-5, mitochondrial; AOEB166; Peroxiredoxin V; SBBI10; prx-V; Antioxidant enzyme B166; Alu corepressor 1; TPx type VI; Peroxisomal antioxidant enzyme; Liver tissue 2D-page spot 71B

Application Instructions

Application table

Application	Dilution
FACS	Assay-dependent
WB	Assay-dependent

Application Note: * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Properties

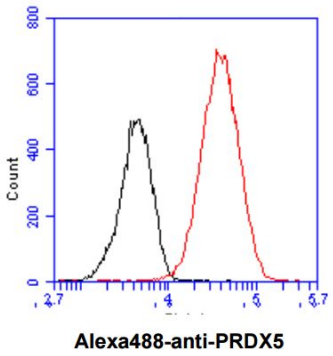
Form	Liquid
Purification	Purification with Protein A.
Buffer	PBS (pH 7.4), 0.02% Sodium azide and 10% Glycerol.
Preservative	0.02% Sodium azide
Stabilizer	10% Glycerol
Concentration	1 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

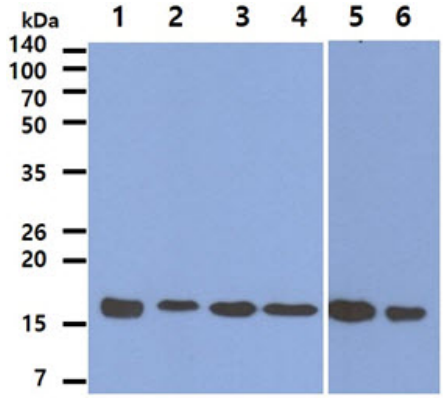
Database links	GeneID: 25824 Human Swiss-port # P30044 Human
Gene Symbol	PRDX5
Gene Full Name	peroxiredoxin 5
Background	This gene encodes a member of the peroxiredoxin family of antioxidant enzymes, which reduce hydrogen peroxide and alkyl hydroperoxides. The encoded protein may play an antioxidant 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. [provided by RefSeq, Jul 2008]
Function	Reduces hydrogen peroxide and alkyl hydroperoxides with reducing equivalents provided through the thioredoxin system. Involved in intracellular redox signaling. [UniProt]
Calculated Mw	22 kDa

Images



ARG57055 anti-Peroxiredoxin 5 antibody [6A10] FACS image

Flow Cytometry: HeLa cell line stained with ARG57055 anti-Peroxiredoxin 5 antibody [6A10] at 2-5 µg for 1x10^6 cells (red line). Secondary antibody: Goat anti-Mouse IgG Alexa fluor 488 conjugate. Isotype control antibody was Mouse IgG (black line).



ARG57055 anti-Peroxiredoxin 5 antibody [6A10] WB image

Western blot: 1) 50 ng of Recombinant PRDX5 protein, 40 µg of 2) MCF-7 cell lysate, 3) A549 cell lysate, 4) HeLa cell lysate, 5) 293T cell lysate, 6) Jurkat cell lysate stained with ARG57055 anti-Peroxiredoxin 5 antibody [6A10] at 1:1000.