

ARG59448 anti-Peroxiredoxin 5 antibody

Package: 50 µg
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes Peroxiredoxin 5
Tested Reactivity	Hu, Rat
Predict Reactivity	Ms, Hm
Tested Application	IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	Peroxiredoxin 5
Species	Human
Immunogen	Synthetic peptide corresponding to aa. 166-181 of Human Peroxiredoxin 5. (DDSLVSIFGNRRLLKRF)
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
	IHC-P	0.5 - 1 µg/ml
	WB	0.1 - 0.5 µg/ml

Application Note IHC-P: Antigen Retrieval: By heat mediation.
* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Properties

Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	0.9% NaCl, 0.2% Na ₂ HPO ₄ , 0.05% Thimerosal, 0.05% Sodium azide and 5% BSA.
Preservative	0.05% Thimerosal and 0.05% Sodium azide
Stabilizer	5% BSA
Concentration	0.5 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 or below. 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.

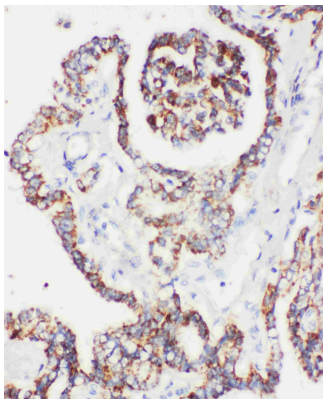
Note

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

Bioinformation

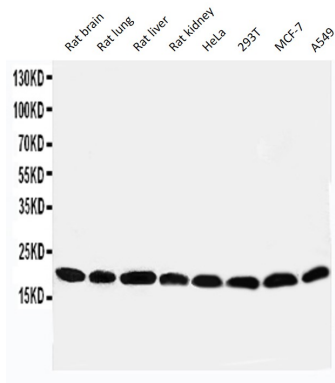
Gene Symbol	PRDX5
Gene Full Name	peroxiredoxin 5
Background	This gene encodes a member of the peroxiredoxin family of antioxidant enzymes, which reduce hydrogen peroxide and alkyl hydroperoxides. The encoded protein may play an antioxidant protective role in different tissues under normal conditions 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
Cellular Localization	Isoform Mitochondrial: Mitochondrion. Isoform Cytoplasmic+peroxisomal: Cytoplasm. Peroxisome matrix. Note=Imported into peroxisomes via peroxisomal targeting signal 1 receptor PEX5. [UniProt]

Images



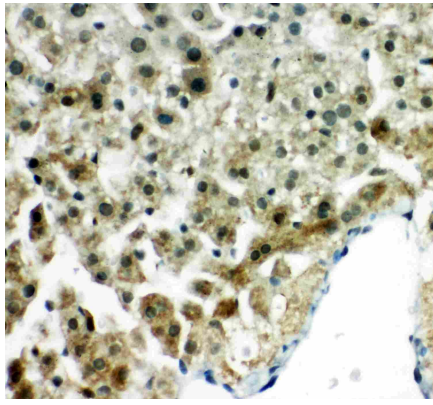
ARG59448 anti-Peroxiredoxin 5 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human prostatic cancer stained with ARG59448 anti-Peroxiredoxin 5 antibody.



ARG59448 anti-Peroxiredoxin 5 antibody WB image

Western blot: Rat brain, Rat lung, Rat liver, Rat kidney, HeLa, 293T, MCF-7 and A549 lysates stained with ARG59448 anti-Peroxiredoxin 5 antibody.



ARG59448 anti-Peroxiredoxin 5 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Rat liver stained with ARG59448 anti-Peroxiredoxin 5 antibody.