

ARG59456 anti-Peroxiredoxin 5 antibody

Package: 50 µg
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes Peroxiredoxin 5
Tested Reactivity	Hu, Ms, Rat
Tested Application	FACS, ICC/IF, IHC-P
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	Peroxiredoxin 5
Species	Human
Immunogen	Recombinant protein corresponding to E66-D198 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	1:150 - 1:500
	ICC/IF	1:200 - 1:1000
	IHC-P	0.5 - 1 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% Sodium azide and 5% BSA.
Preservative	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.

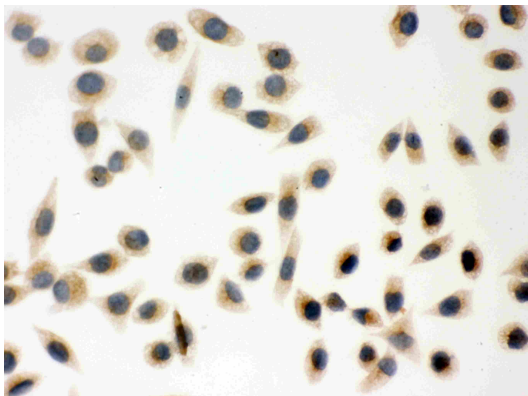
Note

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

Bioinformation

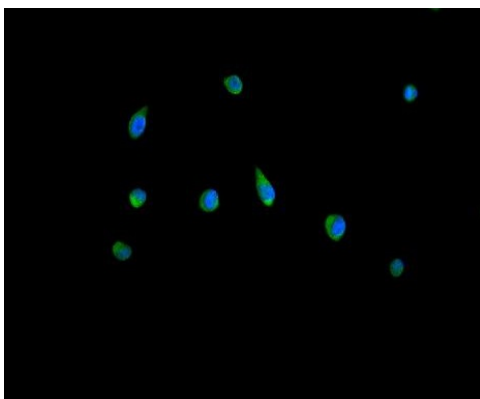
Gene Symbol	PRDX5
Gene Full Name	peroxiredoxin 5
Background	This gene encodes a member of the peroxiredoxin family of antioxidant enzymes, which reduce hydrogen peroxide and alkyl hydroperoxides. The encoded protein may play an antioxidant protective role in different tissues under normal conditions 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



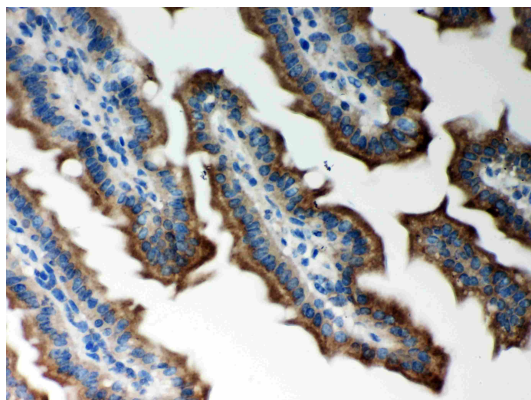
ARG59456 anti-Peroxiredoxin 5 antibody ICC image

Immunocytochemistry: SMMC-7721 cells stained with ARG59456 anti-Peroxiredoxin 5 antibody.



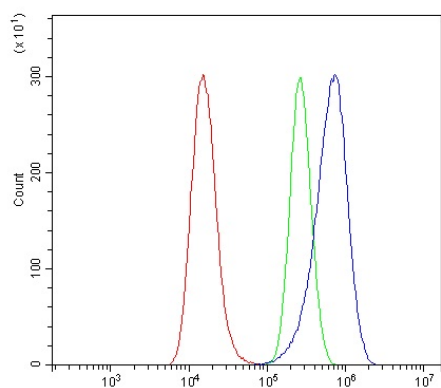
ARG59456 anti-Peroxiredoxin 5 antibody ICC/IF image

Immunofluorescence: HeLa cells were blocked with 10% goat serum and then stained with ARG59456 anti-Peroxiredoxin 5 antibody (green) at 2 µg/ml dilution, overnight at 4°C. DAPI (blue) for nuclear staining.



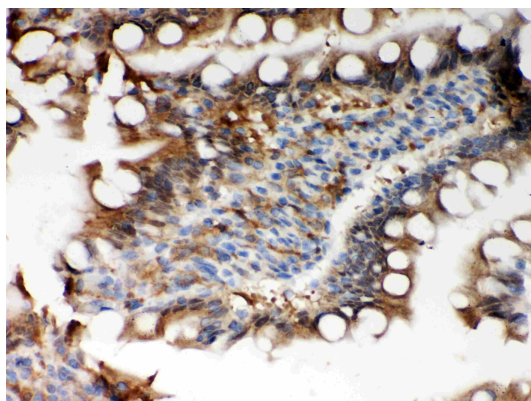
ARG59456 anti-Peroxiredoxin 5 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Mouse intestine stained with ARG59456 anti-Peroxiredoxin 5 antibody.



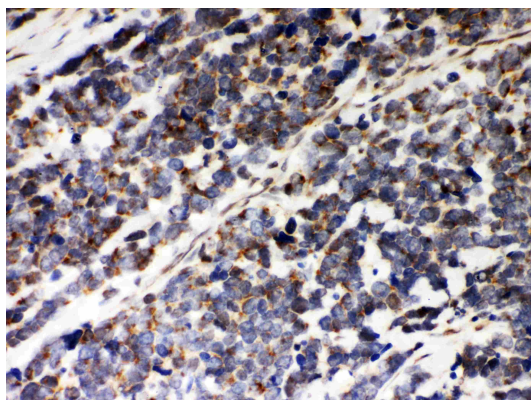
ARG59456 anti-Peroxiredoxin 5 antibody FACS image

Flow Cytometry: A549 cells were blocked with 10% normal goat serum and then stained with ARG59456 anti-Peroxiredoxin 5 antibody (blue) at $1 \mu\text{g}/10^6$ cells for 30 min at 20°C , followed by incubation with DyLight[®]488 labelled secondary antibody. Isotype control antibody (green) was rabbit IgG ($1 \mu\text{g}/10^6$ cells) used under the same conditions. Unlabelled sample (red) was also used as a control.



ARG59456 anti-Peroxiredoxin 5 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Rat intestine stained with ARG59456 anti-Peroxiredoxin 5 antibody.



ARG59456 anti-Peroxiredoxin 5 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human lung cancer stained with ARG59456 anti-Peroxiredoxin 5 antibody.