SunLong Biotech Co.,LTD
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[Primary Antibody]

Rabbit Anti-Peroxiredoxin-5 antibody

Catalog Number: SL22754R

FOR RESEARCH USE ONLY

[DATASHEET]

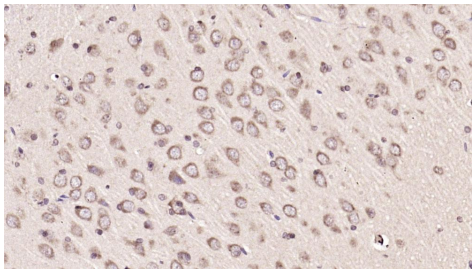
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	Peroxiredoxin-5
Immunogen:	KLH conjugated synthetic peptide derived from human Peroxiredoxin-5: 51-150/214
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	IHC-P=1:100-500 IHC-F=1:100-500 IF=1:100-500 （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Rat(predicted:Human,Mouse,Dog,Pig,Cow,Horse)
Predicted MW.:	22kDa
Subcellular Location:	cytoplasmic Mitochondrion
Background:	This gene encodes a member of the peroxiredoxin family of antioxidant enzymes, which reduce hydrogen peroxide and alkyl hydroperoxides. The encoded protein interacts with peroxisome receptor 1 and plays an antioxidant protective role in different tissues under normal conditions and during inflammatory processes. The use of alternate transcription start sites is thought to result in transcript variants that use different in-frame translational start codons to generate isoforms that are targeted to the mitochondrion (isoform L) or peroxisome/cytoplasm (isoform S). Multiple related pseudogenes have been defined for this gene. [provided by RefSeq, Nov 2017] **Function:** Thiol-specific peroxidase that catalyzes the reduction of hydrogen peroxide and organic hydroperoxides to water and alcohols, respectively. Plays a role in cell protection against oxidative stress by detoxifying peroxides and

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	as sensor of hydrogen peroxide-mediated signaling events. **Subunit:** Monomer. **Subcellular Location:** Mitochondrion. Cytoplasm. Peroxisome. **Tissue Specificity:** Widely expressed. **Similarity:** Belongs to the peroxiredoxin 2 family. Contains 1 thioredoxin domain. **Database links:** **Entrez Gene:** 25824 Human **Entrez Gene:** 54683 Mouse **Entrez Gene:** 113898 Rat Omim: 606583 Human **SwissProt:** P30044 Human **SwissProt:** P99029 Mouse **SwissProt:** Q9R063 Rat **Unigene:** 502823 Human **Unigene:** 279782 Mouse **Unigene:** 2944 Rat

[VALIDATION IMAGES]



Paraformaldehyde-fixed, paraffin embedded (rat brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Peroxiredoxin-5) Polyclonal Antibody, Unconjugated (SL22754R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.

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