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Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Product Number	ARP54577_P050-HRP
Product Page	www.avivasysbio.com/gclc-antibody-middle-region-hrp-arp54577-p050-hrp.html
Name	GCLC Antibody - middle region : HRP (ARP54577_P050-HRP)
Protein Size (# AA)	637 amino acids
Molecular Weight	73kDa
Conjugation	HRP: Horseradish Peroxidase
NCBI Gene Id	2729
Host	Rabbit
Clonality	Polyclonal
Concentration	0.5 mg/ml
Gene Full Name	Glutamate-cysteine ligase, catalytic subunit
Alias Symbols	GCL, GCS, GLCL, GLCLC
Peptide Sequence	Synthetic peptide located within the following region: RISKSRYSIDSYLSKCGEKYNDIDLTIDKEIYEQLLQEGIDHLLAQHVA
Product Format	Liquid. Purified antibody is supplied in high phosphate PBS, 100 mM phosphate, 150 mM NaCl, pH 7.6.
Description of Target	Glutamate-cysteine ligase, also known as gamma-glutamylcysteine synthetase is the first rate limiting enzyme of glutathione synthesis. The enzyme consists of two subunits, a heavy catalytic subunit and a light regulatory subunit. GCLC is the catalytic subunit of 637 amino acids with a calculated molecular weight of 72.773 kDa. Deficiency of gamma-glutamylcysteine synthetase in human is associated with enzymopathic hemolytic anemia.
Protein Interactions	UBC; PPID; GCLM; CCL22; PAXIP1; ELAVL1;
Reconstitution and Storage	All conjugated antibodies should be stored in light-protected vials or covered with a light protecting material (i.e. aluminum foil). Conjugated antibodies are stable for at least 12 months at 4C. If longer storage is desired (24 months), conjugates may be diluted with up to 50% glycerol and stored at -20C to -80C. Freezing and thawing conjugated antibodies will compromise enzyme activity as well as antibody binding.
Datasheets/Manuals	Printable datasheet for anti-GCLC (ARP54577_P050-HRP) antibody
Blocking Peptide	For anti-GCLC (ARP54577_P050-HRP) antibody is Catalog# AAP54577 (Previous Catalog# AAPP44516)
Immunogen	The immunogen is a synthetic peptide directed towards the middle region of human GCLC
Uniprot ID	P48506
Protein Name	Glutamate--cysteine ligase catalytic subunit
Publications	Bardag-Gorce, F. et al. Proteasome inhibitor up regulates liver antioxidative enzymes in rat model of alcoholic liver disease. <i>Exp. Mol. Pathol.</i> 90, 123-30 (2011). WB, Human, Yeast, Dog, Pig, Horse, Rabbit, Rat, Guinea pig, Mouse, Bovine, Zebrafish 21036165 Ramani, K., Tomasi, M. L., Yang, H., Ko, K. & Lu, S. C. Mechanism and significance of changes in glutamate-cysteine ligase expression during hepatic fibrogenesis. <i>J. Biol. Chem.</i> 287, 36341-55 (2012). WB, Human, Yeast, Dog, Pig, Horse, Rabbit, Rat, Guinea pig, Mouse, Bovine, Zebrafish 22942279
Protein Accession #	NP_001489
Purification	Affinity Purified
Nucleotide Accession #	NM_001498
Gene Symbol	GCLC
Predicted Species Reactivity	Human, Mouse, Rat, Cow, Dog, Guinea Pig, Horse, Rabbit, Yeast, Zebrafish

Application	IHC, WB
Predicted Homology Based on Immunogen Sequence	Cow: 100%; Dog: 100%; Guinea Pig: 100%; Horse: 100%; Human: 100%; Mouse: 100%; Rabbit: 100%; Rat: 100%; Yeast: 100%; Zebrafish: 100%
Image 1	 A schematic diagram of an antibody molecule, represented as a Y-shape. It consists of two heavy chains (the inner vertical lines) and two light chains (the outer diagonal lines), all connected at their base. The two upper arms of the Y represent the antigen-binding sites.

AVIVA SYSTEMS BIOLOGY manufactures and sells quality antibody products covering genome wide proteins.

This product is for Research Use Only. Not for diagnostic, human, or veterinary use.
Optimal conditions of its use should be determined by end users.

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