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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
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Product Number	ARP54576_P050-Biotin
Product Page	www.avivasysbio.com/gclc-antibody-n-terminal-region-biotin-arp54576-p050-biotin.html
Name	GCLC Antibody - N-terminal region : Biotin (ARP54576_P050-Biotin)
Protein Size (# AA)	637 amino acids
Molecular Weight	73kDa
Conjugation	Biotin
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: VLETLQEKGERTNPNHPTLWRPEYGSYMIEGTPGQPYYGGTMSSEFNTVEAN
Product Format	Liquid. Purified antibody supplied in 1x PBS buffer.
Reference	Jonsson,L.S., (2008) Int Arch Occup Environ Health 81 (7), 913-919
Description of Target	<p>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. 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. The gene encoding the catalytic subunit encodes a protein of 367 amino acids with a calculated molecular weight of 72.773 kDa and maps to chromosome 6. The regulatory subunit is derived from a different gene located on chromosome 1p22-p21. Deficiency of gamma-glutamylcysteine synthetase in human is associated with enzymopathic hemolytic anemia. Publication Note: This RefSeq record includes a subset of the publications that are available for this gene. Please see the Entrez Gene record to access additional publications.</p>
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 (ARP54576_P050-Biotin) antibody
Blocking Peptide	For anti-GCLC (ARP54576_P050-Biotin) antibody is Catalog # AAP54576 (Previous Catalog # AAPP31360)
Immunogen	The immunogen is a synthetic peptide directed towards the N terminal region of human GCLC
Uniprot ID	P48506
Protein Name	Glutamate-cysteine ligase EMBL BAE97618.1
Publications	Tomasi, M. L. et al. Molecular mechanisms of lipopolysaccharide-mediated inhibition of glutathione synthesis in mice. Free Radic. Biol. Med. 68, 148-58 (2014). WB, Human, Dog, Pig, Rabbit, Rat, Guinea pig, Mouse, Bovine, Horse, Zebrafish 24296246
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, Zebrafish
Application	WB, IHC
Predicted Homology Based on Immunogen Sequence	Cow: 100%; Dog: 100%; Guinea Pig: 100%; Horse: 93%; Human: 100%; Mouse: 100%; Rabbit: 100%; Rat: 100%; Zebrafish: 79%
Image 1	

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Optimal conditions of its use should be determined by end users.

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