



# SZABO SCANDIC

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## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!  
See the following pages for more information!



### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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Product Number	ARP54576_P050-HRP
Product Page	<a href="http://www.avivasysbio.com/gclc-antibody-n-terminal-region-hrp-arp54576-p050-hrp.html">www.avivasysbio.com/gclc-antibody-n-terminal-region-hrp-arp54576-p050-hrp.html</a>
Name	GCLC Antibody - N-terminal region : HRP (ARP54576_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: <a href="#">VLETLQEKGERTNPNHPTLWRPEYGSYMIEGTPGQPYGGTMSFNTVEAN</a>
Product Format	Liquid. Purified antibody is supplied in high phosphate PBS, 100 mM phosphate, 150 mM NaCl, pH 7.6.
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 <a href="#">anti-GCLC (ARP54576_P050-HRP) antibody</a>
Blocking Peptide	For anti-GCLC (ARP54576_P050-HRP) antibody is <a href="#">Catalog# AAP54576</a> (Previous Catalog# AAPP31360)
Immunogen	The immunogen is a synthetic peptide directed towards the N terminal region of human GCLC
Uniprot ID	<a href="#">P48506</a>
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). <b>WB, Human, Dog, Pig, Rabbit, Rat, Guinea pig, Mouse, Bovine, Horse, Zebrafish</b> <a href="#">24296246</a>
Protein Accession #	<a href="#">NP_001489</a>
Purification	Affinity Purified
Nucleotide Accession #	<a href="#">NM_001498</a>

<b>Gene Symbol</b>	<a href="#">GCLC</a>
<b>Predicted Species Reactivity</b>	Human, Mouse, Rat, Cow, Dog, Guinea Pig, Horse, Rabbit, Zebrafish
<b>Application</b>	WB, IHC
<b>Predicted Homology Based on Immunogen Sequence</b>	Cow: 100%; Dog: 100%; Guinea Pig: 100%; Horse: 93%; Human: 100%; Mouse: 100%; Rabbit: 100%; Rat: 100%; Zebrafish: 79%
<b>Image 1</b>	

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

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