



# SZABO SCANDIC

Part of Europa Biosite

## 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	ARP54577_P050-FITC
Product Page	<a href="http://www.avivasysbio.com/gclc-antibody-middle-region-fitc-arp54577-p050-fitc.html">www.avivasysbio.com/gclc-antibody-middle-region-fitc-arp54577-p050-fitc.html</a>
Name	GCLC Antibody - middle region : FITC (ARP54577_P050-FITC)
Protein Size (# AA)	637 amino acids
Molecular Weight	73kDa
Conjugation	FITC: Fluorescein Isothiocyanate
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="#">RISKSRYSIDSYLSKCGEKYNDIDLTIDKEIYEQLLQEGIDHLLAQHVA</a>
Product Format	Liquid. Purified antibody supplied in 1x PBS buffer.
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 <a href="#">anti-GCLC (ARP54577_P050-FITC) antibody</a>
Blocking Peptide	For anti-GCLC (ARP54577_P050-FITC) antibody is <a href="#">Catalog# AAP54577</a> (Previous Catalog # AAPP44516)
Immunogen	The immunogen is a synthetic peptide directed towards the middle region of human GCLC
Uniprot ID	<a href="#">P48506</a>
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). <b>WB, Human, Yeast, Dog, Pig, Horse, Rabbit, Rat, Guinea pig, Mouse, Bovine, Zebrafish</b> <a href="#">21036165</a>  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). <b>WB, Human, Yeast, Dog, Pig, Horse, Rabbit, Rat, Guinea pig, Mouse, Bovine, Zebrafish</b> <a href="#">22942279</a>
Protein Accession #	<a href="#">NP_001489</a>
Purification	Affinity Purified
Nucleotide Accession #	<a href="#">NM_001498</a>
Gene Symbol	<a href="#">GCLC</a>
Predicted Species Reactivity	Human, Mouse, Rat, Cow, Dog, Guinea Pig, Horse, Rabbit, Yeast, Zebrafish

<b>Application</b>	IHC, WB
<b>Predicted Homology Based on Immunogen Sequence</b>	Cow: 100%; Dog: 100%; Guinea Pig: 100%; Horse: 100%; Human: 100%; Mouse: 100%; Rabbit: 100%; Rat: 100%; Yeast: 100%; Zebrafish: 100%
<b>Image 1</b>	 A schematic diagram of a Y-shaped antibody molecule. It consists of two heavy chains (inner lines) and two light chains (outer lines) joined at their C-termini. The N-termini of the light chains are extended outwards, forming the two antigen-binding arms of the Y-shape.

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

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