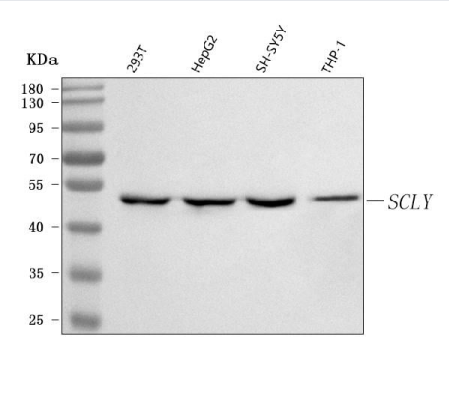
SCLY Antibody – Rabbit Polyclonal

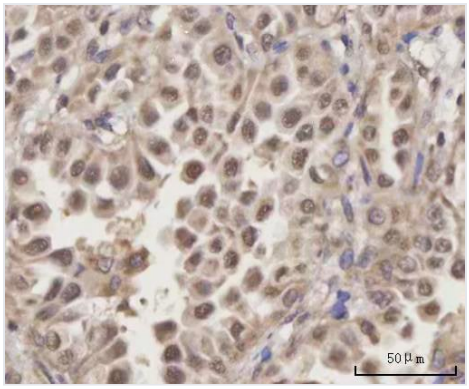
PRODUCT OVERVIEW

Product Name	SCLY, Polyclonal Antibody
Full Product Name	Anti-SCLY Antibody Picoband
Product Gene Name	anti-SCLY antibody
Product Synonym Names	tudor domain containing 3; Tudor domain-containing protein 3; TDRD3
Clonality	Polyclonal
Isotype	Rabbit IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
Purity/Purification	Immunogen affinity purified.
Specificity	Detected in heart, brain, placenta, lung, liver, skeletal muscle, kidney and pancreas.
Preparation and Storage	At -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months.Avoid repeated freezing and thawing.
Molecular Weight	33,957 Da
3D Structure	ModBase 3D Structure for Q96I15
Immunogen	E coli-derived human SCLY recombinant protein (Position: E157-A445).
Subcellular Localization	Nucleus, Cytoplasm
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500ug/ml.
Cross Reactivity	No cross-reactivity with other proteins.
Protein Function	Scaffolding protein that specifically recognizes and binds dimethylarginine-containing proteins. In nucleus, acts as a coactivator: recognizes and binds asymmetric dimethylation on the core histone tails associated with transcriptional activation (H3R17me2a and H4R3me2a) and recruits proteins at these arginine-methylated loci. In cytoplasm, may play a role in the assembly and/or disassembly of mRNA stress granules and in the regulation of translation of target mRNAs by binding Arg/Gly-rich motifs (GAR) in dimethylarginine-containing proteins.
Product Categories/Family for anti-SCLY antibody	Primary Antibodies; Adaptive Immunity; B Cells; Immunoglobulins; Immunology
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Applications Tested/Suitable for anti-SCLY antibody	ELISA (EIA), Immunohistochemistry (IHC), Western Blot (WB), Flow Cytometry (FC/FACS)
Application Notes for anti-SCLY antibody	WB: 0.1-0.25ug/ml, Human IHC(Paraffin-embedded Section): 2-5ug/ml, Human, Mouse, Rat FC/FACS (Fixed): 1-3ug/1x10^6 cells, Human ELISA: 0.1-0.5ug/ml
Related Product Information for anti-SCLY antibody	The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.

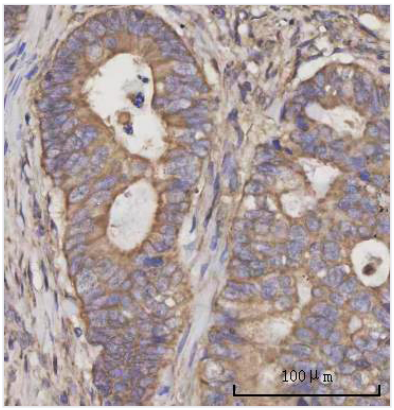
Product References and Citations for anti-SCLY antibody	1. Mihara, H., Kurihara, T., Watanabe, T., Yoshimura, T., Esaki, N. cDNA cloning, purification, and characterization of mouse liver selenocysteine lyase: candidate for selenium delivery protein in selenoprotein synthesis. J. Biol. Chem. 275: 6195-6200, 2000.
Other Notes	Small volumes of anti-SCLY antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for SCLY purchase	MBS1758979 is an antibody targeting SCLY. Also known as Anti-SCLY Antibody Picoband. Reactive in Human, Mouse, Rat. Host: Rabbit.



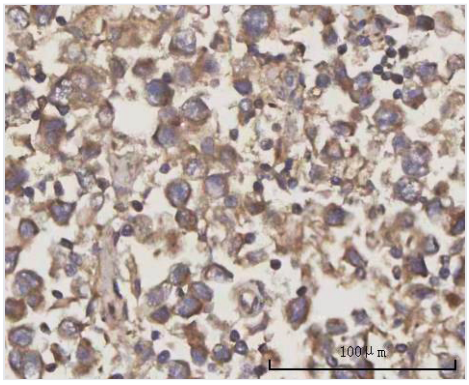
Western Blot (WB) of anti-SCLY antibody
Figure 1. Western blot analysis of SCLY using anti-SCLY antibody (MBS1758979).Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel)/90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions.Lane 1: human 293T whole cell lysates,Lane 2: human HepG2 whole cell lysates,Lane 3: human SH-SY5Y whole cell lysates,Lane 4: human THP-1 whole cell lysates.After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-SCLY antigen affinity purified polyclonal antibody (#MBS1758979) at 0.25ug/mL overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (#MBS176460) with Tanon 5200 system. A specific band was detected for SCLY at approximately 48 kDa. The expected band size for SCLY is at 48 kDa.



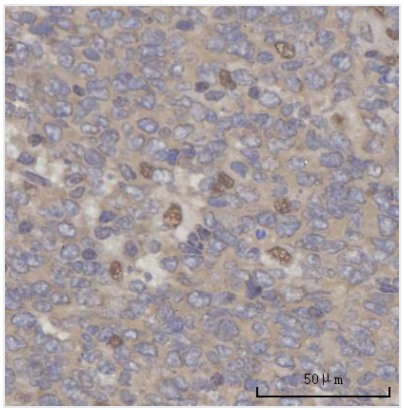
Immunohistochemistry (IHC) of anti-SCLY antibody
Figure 2. IHC analysis of SCLY using anti-SCLY antibody (MBS1758979).SCLY was detected in a paraffin-embedded section of human lung adenocarcinoma tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-SCLY Antibody (MBS1758979) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (#MBS176453) with DAB as the chromogen.



Immunohistochemistry (IHC) of anti-SCLY antibody
Figure 3. IHC analysis of SCLY using anti-SCLY antibody (MBS1758979).SCLY was detected in a paraffin-embedded section of human rectum adenocarcinoma tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-SCLY Antibody (MBS1758979) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (#MBS176453) with DAB as the chromogen.

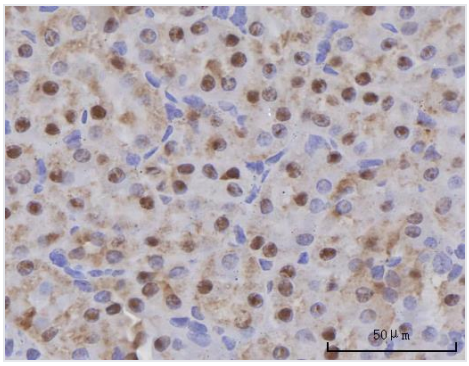


Immunohistochemistry (IHC) of anti-SCLY antibody
Figure 4. IHC analysis of SCLY using anti-SCLY antibody (MBS1758979).SCLY was detected in a paraffin-embedded section of human testicular seminoma tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-SCLY Antibody (MBS1758979) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (#MBS176453) with DAB as the chromogen.



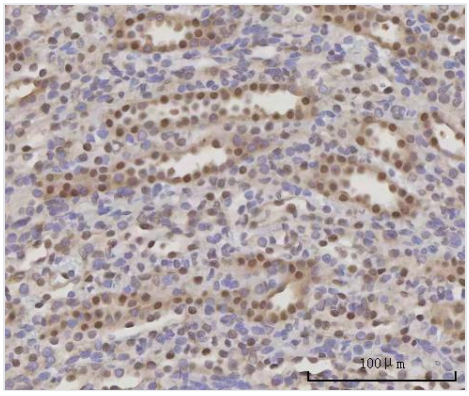
Immunohistochemistry (IHC) of anti-SCLY antibody

Figure 5. IHC analysis of SCLY using anti-SCLY antibody (MBS1758979).SCLY was detected in a paraffin-embedded section of human tonsil tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-SCLY Antibody (MBS1758979) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (#MBS176453) with DAB as the chromogen.



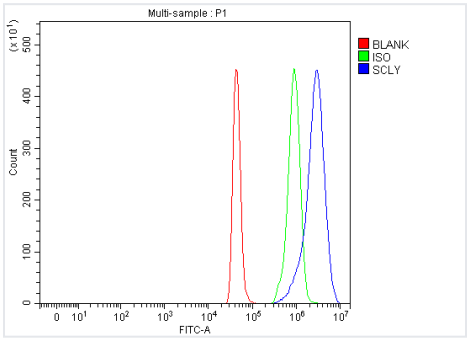
Immunohistochemistry (IHC) of anti-SCLY antibody

Figure 6. IHC analysis of SCLY using anti-SCLY antibody (MBS1758979).SCLY was detected in a paraffin-embedded section of mouse kidney tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-SCLY Antibody (MBS1758979) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (#MBS176453) with DAB as the chromogen.



Immunohistochemistry (IHC) of anti-SCLY antibody

Figure 7. IHC analysis of SCLY using anti-SCLY antibody (MBS1758979).SCLY was detected in a paraffin-embedded section of rat kidney tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-SCLY Antibody (MBS1758979) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (#MBS176453) with DAB as the chromogen.



Flow Cytometry (FC/FACS) of anti-SCLY antibody

Figure 8. Flow Cytometry analysis of SH-SY5Y cells using anti-SCLY antibody (MBS1758979).Overlay histogram showing SH-SY5Y cells stained with MBS1758979 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-SCLY Antibody (MBS1758979, 1ug/1x106 cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG (MBS177405, 5-10ug/1x106 cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x106) used under the same conditions. Unlabelled sample (Red line) was also used as a control.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for SCLY. It may not necessarily be applicable to this product.

NCBI GI #	1418360191
NCBI GeneID	51540
NCBI Accession #	NP_057594.5
UniProt Primary Accession #	Q96I15
UniProt Secondary Accession #	Q53SN1; Q53SN8; Q7L670; Q9NVT7; Q9NZR7; B9A068; J3KN06
UniProt Related Accession #	Q96I15
GenBank Nucleotide #	NM_016510.6
NCBI Official Full Name	selenocysteine lyase

NCBI Official Synonym Full Names	selenocysteine lyase
NCBI Official Symbol	SCLY
NCBI Official Synonym Symbols	SCL; hSCL
UniProt Protein Name	Selenocysteine lyase
Protein Family	Selenocysteine lyase
UniProt Gene Name	SCLY
UniProt Synonym Gene Names	SCL; hSCL
NCBI Protein Information	selenocysteine lyase
NCBI Summary for SCLY	Selenocysteine lyase (SCLY; EC 4.4.1.16) catalyzes the pyridoxal 5-prime phosphate-dependent conversion of L-selenocysteine to L-alanine and elemental selenium (Mihara et al., 2000 [PubMed 10692412]).[supplied by OMIM, Mar 2008]
UniProt Comments for SCLY	Catalyzes the decomposition of L-selenocysteine to L-alanine and elemental selenium.
Research Articles on SCLY	**1.** the X-ray crystal structure of human selenocysteine lyase and the key residue that provides the selenocysteine specificity
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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