

For Research Use Only

# SQLE Monoclonal antibody

Catalog Number: 67206-1-Ig

Featured Product

2 Publications



## Basic Information

<b>Catalog Number:</b> 67206-1-Ig	<b>GenBank Accession Number:</b> BC017033	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 150ul , Concentration: 1000 ug/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 6713	<b>CloneNo.:</b> 1C9A2
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> Q14534	<b>Recommended Dilutions:</b> WB 1:2000-1:10000 IF/ICC 1:400-1:1600
<b>Isotype:</b> IgG2a	<b>Full Name:</b> squalene epoxidase	
<b>Immunogen Catalog Number:</b> AG3266	<b>Calculated MW:</b> 574 aa, 64 kDa	
	<b>Observed MW:</b> 50-64 kDa	

## Applications

<b>Tested Applications:</b> WB, IF/ICC, ELISA	<b>Positive Controls:</b> WB : A549 cells, HEK-293 cells, HepG2 cells, HSC-T6 cells, L02 cells IF/ICC : HEK-293 cells,
<b>Cited Applications:</b> WB, IF	
<b>Species Specificity:</b> Human, Rat, pig	
<b>Cited Species:</b> mouse	

## Background Information

SQLE, also named as ERG1, SE and SM, belongs to the squalene monooxygenase family. It catalyzes the first oxygenation step in cholesterol synthesis, acting on squalene before cyclization into the basic steroid structure. SQLE may serve as a flux-controlling enzyme beyond 3-hydroxy-3-methylglutaryl-coenzyme A reductase (HMGR, considered as rate limiting). It is also posttranslationally regulated by cholesterol-dependent proteasomal degradation. SQLE is subject to feedback regulation via cholesterol-induced degradation, which depends on its lipid-sensing N terminal regulatory domain. Truncation of SQLE occurs during its endoplasmic reticulum-associated degradation and requires the proteasome, which partially degrades the SQLE N-terminus and eliminates cholesterol-sensing elements within this region. The MW of SQLE is about 50-64 kDa. (PMID:21356516, PMID:28972164)

## Notable Publications

Author	Pubmed ID	Journal	Application
Jun Wu	37993027	Cell Signal	IF
Xinyuan Zhao	37490552	Adv Sci (Weinh)	WB

## Storage

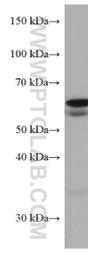
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

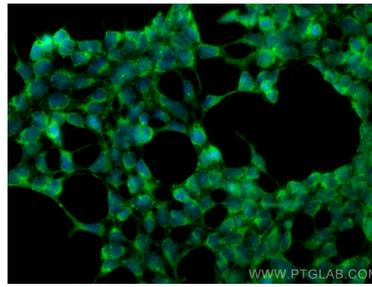
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

## Selected Validation Data



A549 cells were subjected to SDS PAGE followed by western blot with 67206-1-Ig (SQLE antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (-20°C Ethanol) fixed HEK-293 cells using SQLE antibody (67206-1-Ig, Clone: 1C9A2) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Mouse IgG(H+L).