

For Research Use Only

# SQLE Monoclonal antibody

Catalog Number: 67206-1-Ig

Featured Product

2 Publications



## Basic Information

Catalog Number:

67206-1-Ig

Size:

150ul, Concentration: 1000 ug/ml by Bradford method using BSA as the standard;

Source:

Mouse

Isotype:

IgG2a

Immunogen Catalog Number:

AG3266

GenBank Accession Number:

BC017033

GeneID (NCBI):

6713

UNIPROT ID:

Q14534

Full Name:

squalene epoxidase

Calculated MW:

574 aa, 64 kDa

Observed MW:

50-64 kDa

Purification Method:

Protein A purification

CloneNo.:

1C9A2

Recommended Dilutions:

WB 1:2000-1:10000

IF/ICC 1:400-1:1600

## Applications

Tested Applications:

WB, IF/ICC, ELISA

Cited Applications:

WB, IF

Species Specificity:

Human, Rat, pig

Cited Species:

mouse

Positive Controls:

WB : A549 cells, HEK-293 cells, HepG2 cells, HSC-T6 cells, L02 cells

IF/ICC : HEK-293 cells,

## 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

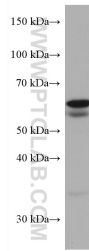
For technical support and original validation data for this product please contact:

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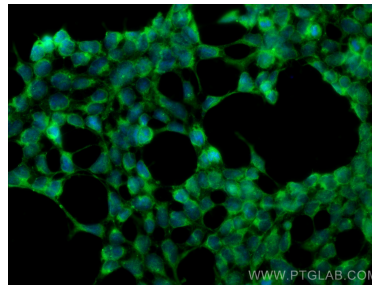
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## Selected Validation Data



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).