

For Research Use Only

SQLE Monoclonal antibody

Catalog Number: 67206-1-Ig **2 Publications**



Basic Information

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

Applications

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

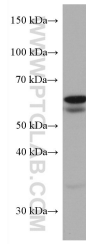
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

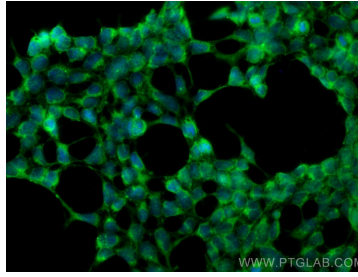
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Selected Validation Data



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 AffiniPure Goat Anti-Mouse IgG(H+L).