

For Research Use Only

SQLE Monoclonal antibody, PBS Only



Catalog Number: 67206-1-PBS

Basic Information

Catalog Number: 67206-1-PBS	GenBank Accession Number: BC017033	Purification Method: Protein A purification
Size: 1mg/ml	GeneID (NCBI): 6713	CloneNo.: 1C9A2
Source: Mouse	UNIPROT ID: Q14534	
Isotype: IgG2a	Full Name: squalene epoxidase	
Immunogen Catalog Number: AG3266	Calculated MW: 574 aa, 64 kDa	
	Observed MW: 50-64 kDa	

Applications

Tested Applications:
WB, IF, Indirect ELISA

Species Specificity:
Human, Rat, pig

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)

Storage

Storage:
Store at -80°C.
The product is shipped with ice packs. Upon receipt, store it immediately at -80°C

Storage Buffer:
PBS Only

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

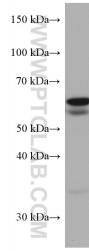
T: 4006900926

E: Proteintech-CN@ptglab.com

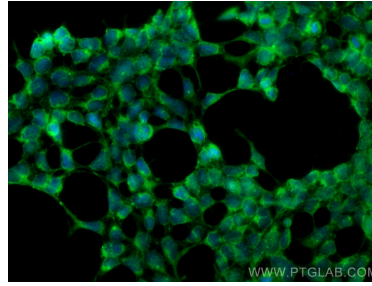
W: ptgcn.com

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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. This data was developed using the same antibody clone with 67206-1-PBS in a different storage buffer formulation.



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). This data was developed using the same antibody clone with 67206-1-PBS in a different storage buffer formulation.