

For Research Use Only

CoraLite®594-conjugated SQLE Monoclonal antibody



Catalog Number:CL594-67206

Basic Information

Catalog Number: CL594-67206	GenBank Accession Number: BC017033	Purification Method: Protein A purification
Size: 100ul , Concentration: 1000 µg/ml by Nanodrop;	GeneID (NCBI): 6713	CloneNo.: 1C9A2
Source: Mouse	UNIPROT ID: Q14534	Excitation/Emission maxima wavelengths: 588 nm / 604 nm
Isotype: IgG2a	Full Name: squalene epoxidase	
Immunogen Catalog Number: AG3266	Calculated MW: 574 aa, 64 kDa	
	Observed MW: 50-64 kDa	

Applications

Tested Applications:
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 -20°C. Avoid exposure to light. Stable for one year after shipment.
Storage Buffer:
PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.
Aliquoting is unnecessary for -20°C storage

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

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Selected Validation Data