

For Research Use Only

SQLE Monoclonal antibody, PBS Only (Capture)

Catalog Number: 67206-1-PBS



Basic Information

Catalog Number: 67206-1-PBS	GenBank Accession Number: BC017033	Purification Method: Protein A purification
Size: 100ug, Concentration: 1mg/ml by Nanodrop;	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/ICC, Cytometric bead array, Indirect ELISA

Species Specificity:
human, rat, pig

Product Information

67206-1-PBS targets SQLE as part of a matched antibody pair:

MP50872-2: 67206-1-PBS capture and 67206-3-PBS detection (validated in Cytometric bead array)

MP50872-3: 67206-1-PBS capture and 67206-4-PBS detection (validated in Cytometric bead array)

Unconjugated mouse monoclonal antibody pair in PBS only (BSA and azide free) storage buffer at a concentration of 1 mg/mL, ready for conjugation.

This conjugation ready format makes antibodies ideal for use in many applications including: ELISAs, multiplex assays requiring matched pairs, mass cytometry, and multiplex imaging applications. Antibody use should be optimized by the end user for each application and assay.

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 (HMGCR, 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

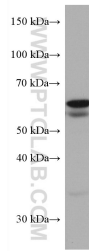
Storage:
Store at -80°C.

Storage Buffer:
PBS Only

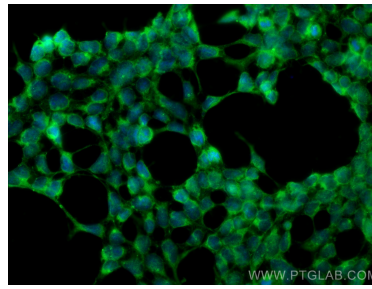
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA) E: proteintech@ptglab.com W: ptglab.com

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

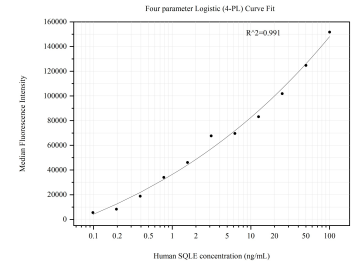
Selected Validation Data



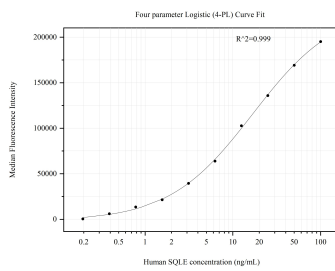
A549 cells were subjected to SDS PAGE followed by western blot with 67206-1-Ig (SQLE antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 67206-1-PBS in a different storage buffer formulation.



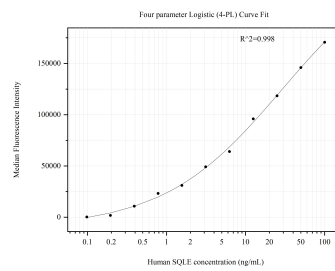
Immunofluorescent analysis of (-20°C Ethanol) fixed HEK-293 cells using SQLE antibody (67206-1-Ig, Clone: 1C9A2) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L). This data was developed using the same antibody clone with 67206-1-PBS in a different storage buffer formulation.



Cytometric bead array standard curve of MP50872-2, SQLE Monoclonal Matched Antibody Pair, PBS Only. Capture antibody: 67206-1-PBS. Detection antibody: 67206-3-PBS. Standard:Ag3266. Range: 0.098-100 ng/mL



Cytometric bead array standard curve of MP50872-3, SQLE Monoclonal Matched Antibody Pair, PBS Only. Capture antibody: 67206-1-PBS. Detection antibody: 67206-4-PBS. Standard:Ag3266. Range: 0.195-100 ng/mL



Cytometric bead array standard curve of MP50872-4, SQLE Monoclonal Matched Antibody Pair, PBS Only. Capture antibody: 67206-1-PBS. Detection antibody: 67206-5-PBS. Standard:null. Range: null.