

# CoraLite® Plus 488-conjugated SQLE

## Monoclonal antibody

Catalog Number: **CL488-67206**

### Basic Information

**Catalog Number:**

CL488-67206

**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:**

493 nm / 522 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:

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