

# **Squalene Epoxidase Polyclonal Antibody**

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP58135

## **Specification**

## **Squalene Epoxidase Polyclonal Antibody - Product Information**

Application WB, IHC-P, IHC-F, IF, E

Primary Accession <u>Q14534</u>

Reactivity
Host
Clonality
Rat, Pig, Dog, Bovine
Rabbit
Polyclonal

Clonality Polyclo
Calculated MW 64 KDa
Physical State Liquid

Immunogen KLH conjugated synthetic peptide derived

laG

from human Squalene Epoxidase

Epitope Specificity 101-200/574

Isotype Purity

Buffer 0.01M TBS (pH7.4) with 1% BSA, 0.02%

Proclin300 and 50% Glycerol.

SUBCELLULAR LOCATION Microsome membrane; Multi-pass

membrane protein. Endoplasmic reticulum membrane; Multi-pass membrane protein.

SIMILARITY Belongs to the squalene monooxygenase

family.

SUBUNIT May form a complex with squalene

synthase.

Important Note This product as supplied is intended for

research use only, not for use in human, therapeutic or diagnostic applications.

## **Background Descriptions**

affinity purified by Protein A

This protein catalyzes the first oxygenation step in sterol biosynthesis and is suggested to be one of the rate-limiting enzymes in this pathway.

## **Squalene Epoxidase Polyclonal Antibody - Additional Information**

## **Gene ID** 6713

## **Other Names**

Squalene monooxygenase, 1.14.14.17, Squalene epoxidase, SE, SQLE, ERG1

## **Dilution**

<span class ="dilution\_WB">WB~~1:1000</span><br \><span class</pre>

="dilution IHC-P">IHC-P~~N/A</span><br \><span class

="dilution IHC-F">IHC-F~~N/A</span><br \><span class

="dilution\_IF">IF $\sim$ 1:50 $\sim$ 200</span><br\><span class ="dilution\_E">E $\sim$ N/A</span>



## **Storage**

Store at -20  $^{\circ}$ C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4  $^{\circ}$ C.

# **Squalene Epoxidase Polyclonal Antibody - Protein Information**

## **Name SQLE**

## **Synonyms** ERG1

#### **Function**

Catalyzes the stereospecific oxidation of squalene to (S)- 2,3-epoxysqualene, and is considered to be a rate-limiting enzyme in steroid biosynthesis.

#### **Cellular Location**

Microsome membrane; Peripheral membrane protein. Endoplasmic reticulum membrane; Peripheral membrane protein

## **Tissue Location**

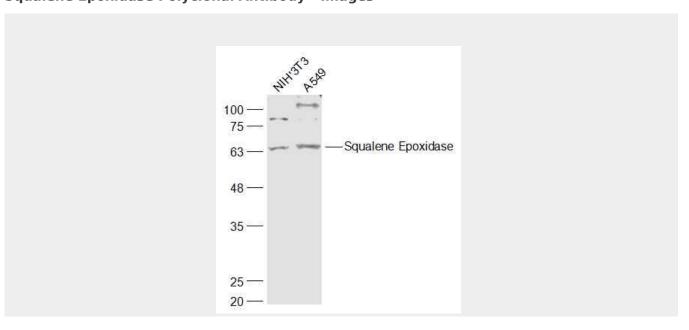
Detected in liver (at protein level).

## **Squalene Epoxidase Polyclonal Antibody - Protocols**

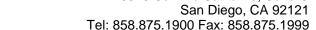
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- <u>Immunoprecipitation</u>
- Flow Cytomety
- Cell Culture

## **Squalene Epoxidase Polyclonal Antibody - Images**







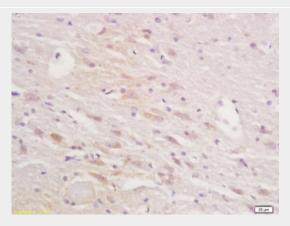


Sample:

NIH/3T3(Mouse) Cell Lysate at 30 ug A549(Human) Cell Lysate at 30 ug

Primary: Anti-Squalene Epoxidase (bs-4218R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 64 kD Observed band size: 64 kD



Tissue/cell: rat brain tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;

Antigen retrieval: citrate buffer ( 0.01M, pH 6.0 ), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum, C-0005) at 37°C for 20 min;

Incubation: Anti-Squalene Epoxidase Polyclonal Antibody, Unconjugated(bs-4218R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining