

## **ALS2CR2 Polyclonal Antibody**

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP58110

### **Specification**

## **ALS2CR2 Polyclonal Antibody - Product Information**

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

Primary Accession
Reactivity

Q9C0K7
Rat, Pig, Dog, Bovine

Host Rabbit
Clonality Polyclonal
Calculated MW 34 KDa
Physical State Liquid

Immunogen KLH conjugated synthetic peptide derived

from human ALS2CR2

Epitope Specificity 251-350/418

Isotype IgG
Purity

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

Proclin300 and 50% Glycerol.

SUBCELLULAR LOCATION Nucleus. Cytoplasm.

SIMILARITY

Belongs to the protein kinase superfamily.

STE Ser/Thr protein kinase family. STE20

subfamily.Contains 1 protein kinase

domain.

SUBUNIT Component of a trimeric complex

composed of STK11/LKB1, STRAD (STRADA

or STRADB) and CAB39/MO25

(CAB39/MO25alpha or CAB39L/MO25beta): the complex tethers STK11/LKB1 in the cytoplasm and stimulates its catalytic activity. Interacts with BIRC4/XIAP. These two proteins are likely to coexist in a

complex with TAK1, TRAF6, TAB1 and TAB2
This product as supplied is intended for research use only, not for use in human,

therapeutic or diagnostic applications.

### **Background Descriptions**

Important Note

affinity purified by Protein A

Amyotrophic lateral sclerosis 2 (juvenile) chromosome region, candidate 2, is connected to transferase/kinase activity and ATP binding, it has recently been shown to interact with XIAP, a member of the IAP (Inhibitor of Apoptosis) protein family. Together, these two proteins synergistically activate the TAK1/JNK1 signal transduction pathway, which acts to protect against the interleukin-1 converting enzyme of Fas-induced apotosis. This protein was independently isolated and characterized as polyploidy-associated protein kinase (PAPK), a member of the Ste20/germinal center kinase family that modulates cytoskeletal organization and cell survival, suggesting that its protective role may be a function of its kinase activity. Although two mRNA sequences have been isolated, only the shorter isoform has been observed.



## **ALS2CR2 Polyclonal Antibody - Additional Information**

#### Gene ID 55437

#### **Other Names**

STE20-related kinase adapter protein beta, STRAD beta, Amyotrophic lateral sclerosis 2 chromosomal region candidate gene 2 protein, CALS-21, ILP-interacting protein, Pseudokinase ALS2CR2, STRADB, ALS2CR2, ILPIP

# **Target/Specificity**

Highly expressed in heart, skeletal muscle, testis, liver and colon.

#### **Dilution**

```
<span class ="dilution_WB">WB~~1:1000</span><br \> <span class
="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~~1:50~200</span><br \> <span class ="dilution_E">E~~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.

# **ALS2CR2 Polyclonal Antibody - Protein Information**

#### Name STRADB

Synonyms ALS2CR2, ILPIP

#### **Function**

Pseudokinase which, in complex with CAB39/MO25 (CAB39/MO25alpha or CAB39L/MO25beta), binds to and activates STK11/LKB1. Adopts a closed conformation typical of active protein kinases and binds STK11/LKB1 as a pseudosubstrate, promoting conformational change of STK11/LKB1 in an active conformation (By similarity).

# **Cellular Location** Nucleus. Cytoplasm

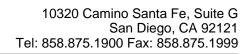
### **Tissue Location**

Highly expressed in heart, skeletal muscle, testis, liver and colon.

## **ALS2CR2 Polyclonal Antibody - Protocols**

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

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





**ALS2CR2 Polyclonal Antibody - Images**