

### **SPIRE1 Polyclonal Antibody**

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP56791

# **Specification**

### **SPIRE1 Polyclonal Antibody - Product Information**

Application
Primary Accession
Reactivity
Host
Clonality
Calculated MW

IHC-P, IHC-F, IF, ICC, E
O08AE8
Rat, Pig, Dog, Bovine
Rabbit
Polyclonal
85544

# **SPIRE1 Polyclonal Antibody - Additional Information**

### Gene ID 56907

#### **Other Names**

Protein spire homolog 1, Spir-1, SPIRE1 {ECO:0000312|EMBL:AAI25207.1}, KIAA1135, SPIR1

### **Dilution**

<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\_ICC">ICC~~N/A</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.

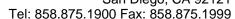
# **SPIRE1 Polyclonal Antibody - Protein Information**

Name SPIRE1 {ECO:0000312|EMBL:AAI25207.1}

Synonyms KIAA1135, SPIR1

## **Function**

Acts as an actin nucleation factor, remains associated with the slow-growing pointed end of the new filament (PubMed:<a href="http://www.uniprot.org/citations/11747823" target="\_blank">11747823</a>, PubMed:<a href="http://www.uniprot.org/citations/21620703" target="\_blank">21620703</a>). Involved in intracellular vesicle transport along actin fibers, providing a novel link between actin cytoskeleton dynamics and intracellular transport (PubMed:<a href="http://www.uniprot.org/citations/11747823" target="\_blank">11747823</a>). Required for asymmetric spindle positioning and asymmetric cell division during meiosis (PubMed:<a href="http://www.uniprot.org/citations/21620703" target="\_blank">21620703</a>). Required for normal formation of the cleavage furrow and for polar body extrusion during female germ cell meiosis (PubMed:<a href="http://www.uniprot.org/citations/21620703" target="\_blank">21620703" target="\_blank">21620703</a>). Also acts in the nucleus: together with FMN2, promotes





assembly of nuclear actin filaments in response to DNA damage in order to facilitate movement of chromatin and repair factors after DNA damage (PubMed: <a href="http://www.uniprot.org/citations/26287480" target=" blank">26287480</a>). In addition,

promotes innate immune signaling downstream of dsRNA sensing (PubMed: <a href="http://www.uniprot.org/citations/35148361" target=" blank">35148361</a>). Mechanistically, contributes to IRF3 phosphorylation and activation downstream of MAVS and upstream of TBK1 (PubMed:<a href="http://www.uniprot.org/citations/35148361" target=" blank">35148361</a>).

# **Cellular Location**

Cytoplasm, cytoskeleton. Cytoplasm, perinuclear region. Cell membrane; Peripheral membrane protein; Cytoplasmic side. Cytoplasmic vesicle membrane {ECO:0000250|UniProtKB:Q52KF3}; Peripheral membrane protein {ECO:0000250|UniProtKB:Q52KF3}; Cytoplasmic side {ECO:0000250|UniProtKB:Q52KF3}. Note=Detected at the cleavage furrow during asymmetric oocyte division and polar body extrusion (By similarity). Punctate spots in perinuclear region and cytoplasm, colocalized with Rab11 (By similarity). {ECO:0000250|UniProtKB:Q52KF3}

### SPIRE1 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>
- <u>Immunofluorescence</u>
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

SPIRE1 Polyclonal Antibody - Images