

**AKIR1 Antibody (C-term)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP17755B****Specification**

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**AKIR1 Antibody (C-term) - Product Information**

Application	WB,E
Primary Accession	<a href="#">O9H9L7</a>
Other Accession	<a href="#">NP_078871.1</a>
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	21867
Antigen Region	131-158

**AKIR1 Antibody (C-term) - Additional Information****Gene ID** 79647**Other Names**

Akirin-1, AKIRIN1, C1orf108

**Target/Specificity**

This AKIR1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 131-158 amino acids from the C-terminal region of human AKIR1.

**Dilution**

WB~~1:1000

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

AKIR1 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

**AKIR1 Antibody (C-term) - Protein Information****Name** AKIRIN1 {ECO:0000303|PubMed:18066067, ECO:0000312|HGNC:HGNC:25744}**Function** Molecular adapter that acts as a bridge between proteins, and which is involved skeletal muscle development (By similarity). Functions as a signal transducer for MSTN during skeletal

muscle regeneration and myogenesis (By similarity). May regulate chemotaxis of both macrophages and myoblasts by reorganising actin cytoskeleton, leading to more efficient lamellipodia formation via a PI3 kinase dependent pathway (By similarity). In contrast to AKIRIN2, not involved in nuclear import of proteasomes (PubMed:[34711951](#)).

#### Cellular Location

Nucleus.

#### Tissue Location

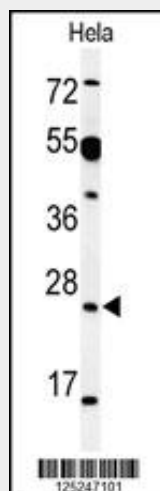
Widely expressed with the highest expression in heart, liver, placenta and peripheral blood leukocytes

### AKIR1 Antibody (C-term) - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### AKIR1 Antibody (C-term) - Images



Western blot analysis of AKIR1 Antibody (C-term) (Cat. #AP17755b) in HeLa cell line lysates (35ug/lane). AKIR1 (arrow) was detected using the purified Pab.

### AKIR1 Antibody (C-term) - Background

The highly conserved, nuclear-localized AKIRIN1 and Akirin2 proteins critically regulate the transcription of NF- $\kappa$ B dependent genes and are required for defense against Gram-negative bacteria in the immune deficiency and NF- $\kappa$ B pathways. AKIRIN1 is dispensable in the mouse, and neither knockout mice nor cells derived from them have obvious distinctive phenotypes. In contrast, Akirin2 is required for development in the mouse and knockout of both Akirin homologs in mice show that Akirin2 is required downstream of toll-like receptor (TLR), TNF- $\alpha$  and IL-1 $\beta$  signaling, and for the production of IL-6. Akirin2 is functionally closer to the single gene in

Drosophila, as the homozygous null D. melanogaster Akirin mutants show a similar, mid-to-early embryonic death.

#### **AKIR1 Antibody (C-term) - References**

Goto, A., et al. Nat. Immunol. 9(1):97-104(2008)