

AKIRIN2 Rabbit pAb

AKIRIN2 Rabbit pAb Catalog # AP59135

Product Information

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

Primary Accession Q53H80

Reactivity Rat, Pig, Chicken, Dog, Horse

Host Rabbit
Clonality Polyclonal
Calculated MW 22496
Physical State Liquid

Immunogen KLH conjugated synthetic peptide derived from human AKIRIN2

Epitope Specificity 51-150/203

Isotype IgG

Purity affinity purified by Protein A

Buffer 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.

SUBCELLULAR LOCATION Nucleus

SIMILARITY Belongs to the akirin family.

SUBUNIT Interacts with YWHAB (By similarity).

Important Note This product as supplied is intended for research use only, not for use in

human, therapeutic or diagnostic applications.

Background Descriptions Required for the innate immune response. Downstream effector of the

Toll-like receptor (TLR), TNF and IL-1 beta signaling pathways leading to the production of IL-6. Forms a complex with YWHAB that acts to repress

transcription of DUSP1.

Additional Information

Gene ID 55122

Other Names Akirin-2, AKIRIN2 {ECO:0000303 | PubMed:18066067,

ECO:0000312 | HGNC:HGNC:21407}

Target/Specificity Widely expressed with the highest expression in peripheral blood leukocytes

Dilution IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500,ELISA=1:5000-10000

Storage Store at -20 °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 °C.

Protein Information

Name

AKIRIN2 {ECO:0000303 | PubMed:18066067,

ECO:0000312 | HGNC:HGNC:21407}

Function

Molecular adapter that acts as a bridge between a variety of multiprotein complexes, and which is involved in embryonic development, immunity, myogenesis and brain development (PubMed:34711951). Plays a key role in nuclear protein degradation by promoting import of proteasomes into the nucleus: directly binds to fully assembled 20S proteasomes at one end and to nuclear import receptor IPO9 at the other end, bridging them together and mediating the import of pre-assembled proteasome complexes through the nuclear pore (PubMed:34711951). Involved in innate immunity by regulating the production of interleukin-6 (IL6) downstream of Toll-like receptor (TLR): acts by bridging the NF-kappa-B inhibitor NFKBIZ and the SWI/SNF complex, leading to promote induction of IL6 (By similarity). Also involved in adaptive immunity by promoting B-cell activation (By similarity). Involved in brain development: required for the survival and proliferation of cerebral cortical progenitor cells (By similarity). Involved in myogenesis: required for skeletal muscle formation and skeletal development, possibly by regulating expression of muscle differentiation factors (By similarity). Also plays a role in facilitating interdigital tissue regression during limb development (By similarity).

Cellular Location

Nucleus. Cytoplasm {ECO:0000250 | UniProtKB:B1AXD8} Membrane {ECO:0000250 | UniProtKB:B1AXD8}. Note=Present mainly in the nuclear fraction, and at much lower level in the cytoplasmic and membrane fractions. {ECO:0000250 | UniProtKB:B1AXD8}

Tissue Location

Widely expressed with the highest expression in peripheral blood leukocytes.

Background

Required for the innate immune response. Downstream effector of the Toll-like receptor (TLR), TNF and IL-1 beta signaling pathways leading to the production of IL-6. Forms a complex with YWHAB that acts to repress transcription of DUSP1.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.