10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

AKIRIN2 Rabbit pAb

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Catalog # AP59135

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q53H80
Reactivity	Mouse
Predicted	Rat, Pig, Dog, Human, Chicken, Horse, Sheep
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
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}
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.

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