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AKIRIN2 Antibody (C-term) Blocking Peptide

Synthetic peptide
Catalog # BP17163b

Specification

AKIRIN2 Antibody (C-term) Blocking Peptide - Product Information

Primary Accession Q53H80

AKIRIN2 Antibody (C-term) Blocking Peptide - Additional Information

Gene ID 55122

Other Names
Akirin-2, AKIRIN2, C6orf166

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

AKIRIN2 Antibody (C-term) Blocking Peptide - 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.

AKIRIN2 Antibody (C-term) Blocking Peptide - Protocols

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

- Blocking Peptides

AKIRIN2 Antibody (C-term) Blocking Peptide - Images

AKIRIN2 Antibody (C-term) Blocking Peptide - 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 (By similarity).

AKIRIN2 Antibody (C-term) Blocking Peptide - References

Komiya, Y., et al. J. Biol. Chem. 283(27):18753-18764(2008)Goto, A., et al. Nat. Immunol. 9(1):97-104(2008)Levy, D., et al. BMC Med. Genet. 8 SUPPL 1, S3 (2007) :Vasan, R.S., et al. BMC Med. Genet. 8 SUPPL 1, S2 (2007) :Olsen, J.V., et al. Cell 127(3):635-648(2006)