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AKIRIN2 Antibody (Internal)
Rabbit Polyclonal Antibody
Catalog # ALS12988

Specification

AKIRIN2 Antibody (Internal) - Product Information

Application	**WB, IHC-P**
Primary Accession	Q53H80
Reactivity	**Human, Mouse, Rat**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**22kDa KDa**
Dilution	**WB~~1:1000** **IHC-P~~N/A**

AKIRIN2 Antibody (Internal) - Additional Information

Gene ID 55122

Other Names
Akirin-2, AKIRIN2, C6orf166

Reconstitution & Storage
Short term 4°C, long term aliquot and store at -20°C, avoid freeze thaw cycles. Store undiluted.

Precautions
AKIRIN2 Antibody (Internal) is for research use only and not for use in diagnostic or therapeutic procedures.

AKIRIN2 Antibody (Internal) - 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}

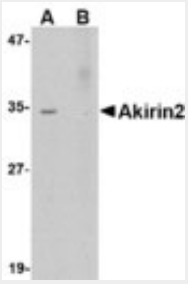
Tissue Location
Widely expressed with the highest expression in peripheral blood leukocytes.

AKIRIN2 Antibody (Internal) - Protocols

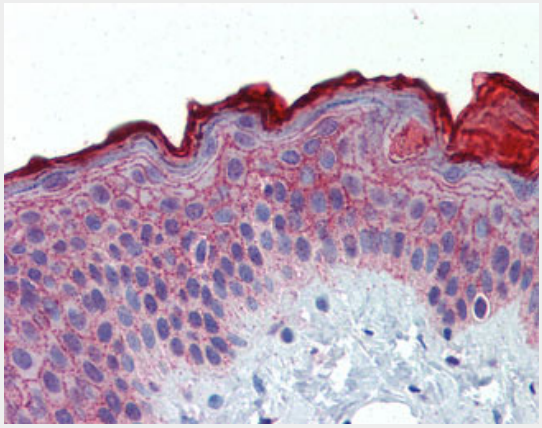
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

AKIRIN2 Antibody (Internal) - Images



Western blot of Akirin2 in Human Brain tissue lysate with Akirin2 antibody at 0.5 ug/ml in (A)...



Anti-AKIRIN2 antibody IHC of human skin.

AKIRIN2 Antibody (Internal) - 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 (Internal) - References

Suzuki Y.,et al.Submitted (APR-2005) to the EMBL/GenBank/DDBJ databases.
Mungall A.J.,et al.Nature 425:805-811(2003).
Olsen J.V.,et al.Cell 127:635-648(2006).
Goto A.,et al.Nat. Immunol. 9:97-104(2008).
Goto A.,et al.Nat. Immunol. 9:216-216(2008).