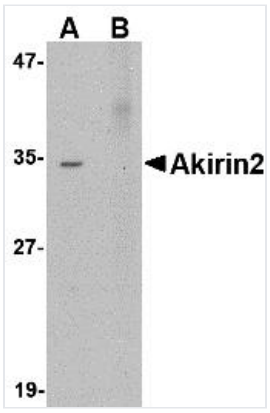
AKIRIN2 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	Akirin2, IN2, Polyclonal Antibody
Full Product Name	Akirin2, IN2 (C6orf166, chromosome 6 open reading frame 166, dJ486L4.2, FBI1, FLJ10342, Protein C6orf166, Uncharacterized protein C6orf166)
Product Gene Name	anti-AKIRIN2 antibody
Product Synonym Names	Anti -Akirin2, IN2 (C6orf166, chromosome 6 open reading frame 166, dJ486L4.2, FBI1, FLJ10342, Protein C6orf166, Uncharacterized protein C6orf166)
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Supplied as a liquid in PBS, 0.02% sodium azide.
Purity/Purification	Affinity Purified Purified by immunoaffinity chromatography.
Specificity	Recognizes human Akirin2. Species Crossreactivity: Mouse and rat.
Preparation and Storage	May be stored at 4 degree C for short-term only. For long-term storage and to avoid repeated freezing and thawing, aliquot and store at -20 degree C. Aliquots are stable for at least 12 months at -20 degree C. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap. Further dilutions can be made in assay buffer.
Molecular Weight	22,496 Da
Chromosome Location	Chromosome: 6; NC_000006.11 (88384578..88411985, complement). Location: 6q15
3D Structure	ModBase 3D Structure for Q53H80
Immunogen	Synthetic peptide corresponding to 15aa from near the center of the human Akirin2.
Positive Control	Human Brain Tissue Lysate
Product Categories/Family for anti-AKIRIN2 antibody	Antibodies; Abs to Proteins
Applications Tested/Suitable for anti-AKIRIN2 antibody	Western Blot (WB)
Application Notes for anti-AKIRIN2 antibody	Suitable for use in Western Blot. Dilution: Western Blot: 0.5ug/ml
Related Product Information for anti-AKIRIN2 antibody	The highly conserved, nuclear-localized Akirin1 and Akirin2 proteins critically regulate the transcription of NF-kappaB-dependent genes and are required for defense against Gram-negative bacteria in the immune deficiency and NF-kappaB 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-1beta 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.
Other Notes	Small volumes of anti-AKIRIN2 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

Searchable Terms for AKIRIN2 purchase	MBS621733 is an antibody targeting AKIRIN2. Also known as Akirin2, IN2 (C6orf166, chromosome 6 open reading frame 166, dJ486L4.2, FBI1, FLJ10342, Protein C6orf166, Uncharacterized protein C6orf166). Reactive in Human, Mouse, Rat. Host: Rabbit.



Western Blot (WB) of anti-AKIRIN2 antibody
Western blot analysis of Akirin2 in Human Brain tissue lysate with Akirin2 antibody at 0.5 ug/ml in (A) the absence and (B) the presence ofblocking peptide.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for AKIRIN2. It may not necessarily be applicable to this product.

NCBI GI #	14149718
NCBI GeneID	55122
NCBI Accession #	NP_060534.1
UniProt Primary Accession #	Q53H80
UniProt Secondary Accession #	Q9BQB1
UniProt Related Accession #	Q53H80; Q9NW35
GenBank Nucleotide #	NM_018064.3
NCBI Official Full Name	akirin-2
NCBI Official Synonym Full Names	akirin 2
NCBI Official Symbol	AKIRIN2
NCBI Official Synonym Symbols	FBI1; C6orf166; FLJ10342; dJ486L4.2
UniProt Protein Name	Akirin-2
Protein Family	Akirin
UniProt Gene Name	AKIRIN2
UniProt Synonym Gene Names	C6orf166
UniProt Entry Name	AKIR2_HUMAN
NCBI Protein Information	akirin-2; OTTHUMP00000016836; fourteen-three-three beta interactant 1

UniProt Comments for AKIRIN2	AKIRIN2: 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. Belongs to the akirin family. Protein type: Transcription regulation; Cell cycle regulation Chromosomal Location of Human Ortholog: 6q15 Cellular Component: transcriptional repressor complex; nucleus Molecular Function: enzyme binding Biological Process: embryonic development; transcription, DNA-dependent; positive regulation of cell proliferation; innate immune response; positive regulation of interleukin-6 production; positive regulation of transcription from RNA polymerase II promoter; response to lipopolysaccharide; negative regulation of transcription from RNA polymerase II promoter
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