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anti-AKTIP antibody (Middle Region)





Publication



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Quantity:	100 μL
Target:	AKTIP
Binding Specificity:	Middle Region
Reactivity:	Human, Mouse, Rat, Rabbit, Dog, Zebrafish (Danio rerio), Horse, Cow, Guinea Pig
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This AKTIP antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Immunogen:	The immunogen is a synthetic peptide directed towards the middle region of human AKTIP
Sequence:	NPSVHDEARE KMLTQKKPEE QHNKSVHVAG LSWVKPGSVQ PFSKEEKTVA
Predicted Reactivity:	Cow: 100%, Dog: 100%, Guinea Pig: 100%, Horse: 100%, Human: 100%, Mouse: 100%, Rabbit: 100%, Rat: 100%, Zebrafish: 83%
Characteristics:	This is a rabbit polyclonal antibody against AKTIP. It was validated on Western Blot using a cell lysate as a positive control.
Purification:	Affinity Purified

Target Details

Target: AKTIP

Target Details

Alternative Name:	AKTIP (AKTIP Products)
Background:	AKTIP is the component of the FTS/Hook/FHIP complex (FHF complex). The FHF complex
	may function to promote vesicle trafficking and/or fusion via the homotypic vesicular protein
	sorting complex (the HOPS complex). AKTIP regulates apoptosis by enhancing phosphorylation
	and activation of AKT1. AKTIP increases release of TNFSF6 via the AKT1/GSK3B/NFATC1
	signaling cascade. The mouse homolog of this gene produces fused toes and thymic
	hyperplasia in heterozygous mutant animals while homozygous mutants die in early
	development. This gene may play a role in apoptosis as these morphological abnormalities are
	caused by altered patterns of programmed cell death. The protein encoded by this gene is
	similar to the ubiquitin ligase domain of other ubiquitin-conjugating enzymes but lacks the
	conserved cysteine residue that enables those enzymes to conjugate ubiquitin to the target
	protein. This protein interacts directly with serine/threonine kinase protein kinase B (PKB)/Akt
	and modulates PKB activity by enhancing the phosphorylation of PKB's regulatory sites.
	Alternative splicing results in two transcript variants encoding the same protein.
	Alias Symbols: FT1, FTS
	Protein Interaction Partner: HOOK1, HOOK2, HOOK3, FAM160A2, VPS16, VPS18, VPS41,
	TRIM23, TRIM41, MARCH5, DZIP3, KIAA1377, EXOC7, POLA2, GTF3C1, UTP14A, C10orf2,
	PDPK1, ASS1, CTBP2, IMMT, RPA1, AKT1, TIMM50, PDS5A, IARS, HDLBP, DCTN1,
	Protein Size: 292
Molecular Weight:	33 kDa
Gene ID:	64400
NCBI Accession:	NM_001012398, NP_001012398
UniProt:	Q9H8T0
Application Details	
Application Notes:	Optimal working dilutions should be determined experimentally by the investigator.
Comment:	Antigen size: 292 AA
Restrictions:	For Research Use only
Handling	
Format:	Liquid

Handling

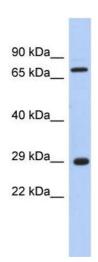
Buffer:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09 $\%$ (w/v) sodium azide and 2 $\%$ sucrose.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-20 °C
Storage Comment:	For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.

Publications

Product cited in:

Conti, Riva, Pesca, Iannaccone, Cannistraci, Corbo, Previtali, Quattrini, Alessio: "Increased expression of Myosin binding protein H in the skeletal muscle of amyotrophic lateral sclerosis patients." in: **Biochimica et biophysica acta**, Vol. 1842, Issue 1, pp. 99-106, (2013) (PubMed).

Images



Western Blotting

Image 1. WB Suggested Anti-AKTIP Antibody Titration:

0.2-1 ug/ml

ELISA Titer: 1:1562500

Positive Control: Human Muscle