ANKLE2 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	ANKLE2, Polyclonal Antibody
Full Product Name	ANKLE2 Polyclonal Antibody
Product Gene Name	anti-ANKLE2 antibody
Product Synonym Names	KIAA0692; LEMD7; Lem4; MCPH16
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	PBS with 0.02% sodium azide, 50% glycerol, pH 7.3.
Purity/Purification	Affinity Purification
Preparation and Storage	Store at -20 degree C. Avoid freeze/thaw cycles.
OMIM	616062
3D Structure	ModBase 3D Structure for Q86XL3
Immunogen	Recombinant fusion protein of human ANKLE2.
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-ANKLE2 antibody	Western Blot (WB)
Application Notes for anti-ANKLE2 antibody	WB: 1:500-1:2000
Related Product Information for anti-ANKLE2 antibody	This gene encodes a member of the LEM family of inner nuclear membrane proteins. The encoded protein functions as a mitotic regulator through postmitotic formation of the nuclear envelope. Mutations in this gene cause morphology defects in the nuclear envelope and BAF hyperphosphorylation. [provided by RefSeq, Mar 2014]
Other Notes	Small volumes of anti-ANKLE2 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 ANKLE2 purchase	MBS8572230 is an antibody targeting ANKLE2. Also known as ANKLE2 Polyclonal Antibody. Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ANKLE2. It may not necessarily be applicable to this product.

NCBI GI #	73909121
NCBI GeneID	23141
NCBI Accession #	AAH43157
UniProt Primary Accession #	Q86XL3
UniProt Related Accession #	Q86XL3

NCBI Official Full Name	ANKLE2 protein
NCBI Official Synonym Full Names	ankyrin repeat and LEM domain containing 2
NCBI Official Symbol	ANKLE2
NCBI Official Synonym Symbols	Lem4; LEMD7; MCPH16; KIAA0692
UniProt Protein Name	Ankyrin repeat and LEM domain-containing protein 2
UniProt Synonym Protein Names	LEM domain-containing protein 4
Protein Family	Ankyrin repeat and LEM domain-containing protein
UniProt Gene Name	ANKLE2
UniProt Synonym Gene Names	KIAA0692; LEM4
UniProt Entry Name	ANKL2_HUMAN
NCBI Protein Information	ankyrin repeat and LEM domain-containing protein 2
UniProt Comments for ANKLE2	ANKLE2: Involved in mitotic nuclear envelope reassembly by promoting dephosphorylation of BAF/BANF1 during mitotic exit. Coordinates the control of BAF/BANF1 dephosphorylation by inhibiting VRK1 kinase and promoting dephosphorylation of BAF/BANF1 by protein phosphatase 2A (PP2A), thereby facilitating nuclear envelope assembly. It is unclear whether it acts as a real PP2A regulatory subunit or whether it is involved in recruitment of the PP2A complex. Belongs to the ANKLE2 family. 3 isoforms of the human protein are produced by alternative splicing. Protein type: Membrane protein, integral Chromosomal Location of Human Ortholog: 12q24.33 Cellular Component: endoplasmic reticulum membrane; membrane; integral to endoplasmic reticulum membrane Molecular Function: protein binding; protein phosphatase 2A binding; protein phosphatase type 2A regulator activity Biological Process: mitosis; mitotic nuclear envelope reassembly; cell division; regulation of catalytic activity; negative regulation of phosphorylation; mitotic cell cycle; positive regulation of protein amino acid dephosphorylation
Research Articles on ANKLE2	**1.** LEM4 represents a prognostic marker and an attractive target for breast cancer therapeutics.
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