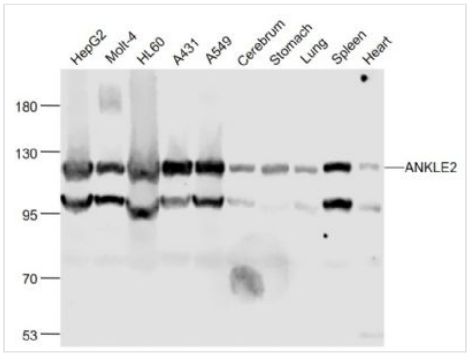
ANKLE2 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	ANKLE2, Polyclonal Antibody
Full Product Name	ANKLE2 Polyclonal Antibody
Product Gene Name	anti-ANKLE2 antibody
Product Synonym Names	Ankyrin repeat and LEM domain-containing protein 2; LEM domain-containing protein 4; ANKLE2; KIAA0692; LEM4
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Rat, Cow
Purity/Purification	Purified Rabbit Polyclonal Antibody (Pab)
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 2 weeks. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.
Molecular Weight	31,982 Da
OMIM	616062
3D Structure	ModBase 3D Structure for Q86XL3
Applications Tested/Suitable for anti-ANKLE2 antibody	Western Blot (WB), Immunohistochemistry-Paraffin (IHC-P), Immunohistochemistry-Frozen (IHC-F), Immunofluorescence (IF)
Related Product Information for anti-ANKLE2 antibody	MBS9238944 is an antibody targeting ANKLE2. Also known as ANKLE2 Polyclonal Antibody. Reactive in Rat, Cow. Host: Rabbit.
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.



Wester Blot (WB) of anti-ANKLE2 antibody
Sample: HepG2(Human) Cell Lysate at 30 ug Molt-4Human) Cell Lysate at 30 ug HL60(Human) Cell Lysate at 30 ug A431(Human) Cell Lysate at 30 ug A549(Human) Cell Lysate at 30 ug Cerebrum (Mouse) Lysate at 40 ug Stomach (Mouse) Lysate at 40 ug Lung (Mouse) Lysate at 40 ug Spleen (Mouse) Lysate at 40 ug Heart (Mouse) Lysate at 40 ug Primary: Anti-ANKLE2 (bs-9743R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 117 kD Observed band size: 117 kD

ADDITIONAL DETAILS

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

NCBI GI #	148664230
NCBI GeneID	23141
NCBI Accession #	AAH43157
UniProt Primary Accession #	Q86XL3
UniProt Secondary Accession #	O75176; Q6P6A5; Q8TAZ9; Q96DH4; A8KAG3; B3KN97; B3KSF8
UniProt Related Accession #	Q86XL3
GenBank Nucleotide #	NM_015114.2
NCBI Official Full Name	ankyrin repeat and LEM domain-containing protein 2
NCBI Official Synonym Full Names	ankyrin repeat and LEM domain containing 2
NCBI Official Symbol	ANKLE2
NCBI Official Synonym Symbols	Lem4; LEMD7; 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; LEM domain containing 7; LEM domain-containing protein 4
NCBI Summary for ANKLE2	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]
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.** By coordinating VRK-1- and PP2A-mediated signaling on BAF, Lem4 and LEM-4L (Y55F3BR.8) controls postmitotic nuclear envelope formation in a function conserved from worms to humans.
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