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ANKLE2 Antibody

Catalog # ASC11409

Product Information

Application	WB, E
Primary Accession	Q86XL3
Other Accession	AAH43157, 148664230
Reactivity	Human, Mouse, Rat
Host	Chicken
Clonality	Polyclonal
Isotype	IgY
Calculated MW	104114
Concentration (mg/ml)	1 mg/mL
Conjugate	Unconjugated
Application Notes	ANKLE2 antibody can be used for detection of ANKLE2 by Western blot at 1 - 2 g/mL.

Additional Information

Gene ID	23141
Other Names	Ankyrin repeat and LEM domain-containing protein 2, LEM domain-containing protein 4, ANKLE2, KIAA0692, LEM4
Target/Specificity	ANKLE2; Three isoforms of ANKLE2 are known to exist; this antibody will detect all three. ANKLE2 antibody is predicted to not cross-react with ANKLE1.
Reconstitution & Storage	ANKLE2 antibody can be stored at 4℃ for three months and -20℃, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.
Precautions	ANKLE2 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	ANKLE2
Synonyms	KIAA0692, LEM4
Function	Involved in mitotic nuclear envelope reassembly by promoting dephosphorylation of BAF/BANF1 during mitotic exit (PubMed:22770216). 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 (PubMed:22770216). May regulate nuclear localization of VRK1 in non-dividing cells (PubMed:31735666). It is unclear whether it acts as a real PP2A

	regulatory subunit or whether it is involved in recruitment of the PP2A complex (PubMed:22770216). Involved in brain development (PubMed:25259927).
Cellular Location	Endoplasmic reticulum membrane; Single-pass type III membrane protein

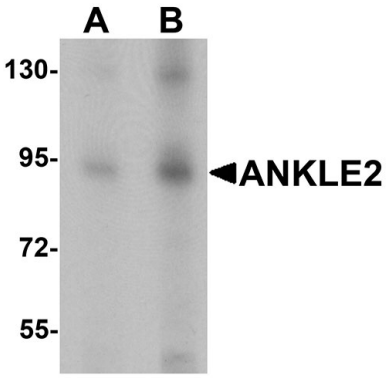
Background

ANKLE2 Antibody: Ankyrins are membrane adaptor molecules that play important roles in coupling integral membrane proteins to the spectrin-based cytoskeleton network. ANKLE2 (Ankyrin repeat and LEM domain containing 2) is a member of ankyrin repeat and LEM domain containing family. It is a potential single-pass membrane protein that contains three ankyrin repeats and a Lem domain. Ankyrin repeats mediate protein-protein interactions and are among the most common structural motifs in known proteins. The function of this protein is still under investigation.

References

Lee KK and Wilson KL. All in the family: evidence for four new LEM-domain proteins Lem2 (NET-25), Lem3, Lem4 and Lem5 in the human genome. Symp. Soc. Exp. Biol. 2004; 56:329-39

Images



Western blot analysis of ANKLE2 in SW480 cell lysate with ANKLE2 antibody at (A) 1 and (B) 2 µg/mL.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.