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Datasheet for ABIN1401368 anti-PDZRN3 antibody (FITC)



Overview		
Quantity:	100 µL	
Target:	PDZRN3	
Reactivity:	Human, Mouse, Rat	
Host:	Rabbit	
Clonality:	Polyclonal	
Conjugate:	This PDZRN3 antibody is conjugated to FITC	
Application:	Western Blotting (WB), Immunofluorescence (Paraffin-embedded Sections) (IF (p))	
Product Details		
Immunogen:	KLH conjugated synthetic peptide derived from human SEMCAP3/LNX3	
Isotype:	lgG	
Cross-Reactivity:	Human, Mouse, Rat	
Purification:	Purified by Protein A.	
Target Details		
Target:	PDZRN3	
Alternative Name:	SEMCAP3 (PDZRN3 Products)	
Background:	Synonyms: Ligand of Numb protein X 3, likely ortholog of mouse semaF cytoplasmic domain	
	associated protein 3, LNX3, PDZ domain containing ring finger 3, Protein SEMACAP3,	
	SEMACAP3, Semaphorin cytoplasmic domain associated protein, PZRN3_HUMAN.	
	Background: PDZRN3 contains a RING-finger motif in its N-terminal region, two PDZ domains in	

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its central region and a consensus-binding motif for PDZ domains at its C-terminus. It was
identified in silico as a homolog of the protein known as LNX1 or SEMCAP1, which possesses
ubiquitin ligase activity and binds the membrane protein Semaphorin 4C. However, PDZRN3
itself has not previously been characterized. We have now evaluated the properties and
functions of PDZRN3. The PDZRN3 gene was shown to be expressed in various human tissues
including the heart, skeletal muscle and liver and its expression in mouse skeletal muscle was
developmentally regulated. Both the differentiation of C2C12 mouse skeletal myoblasts into
myotubes and injury-induced muscle regeneration in vivo were found to be accompanied by up-
regulation of PDZRN3. The differentiation-associated increase in the expression of PDZRN3 in
C2C12 cells follows that of myogenin and precedes that of myosin heavy chain. Depletion of
PDZRN3 by RNA interference inhibited the formation of myotubes as well as the associated up-
regulation of myosin heavy chain in C2C12 cells. Our data suggest that PDZRN3 plays an
essential role in the differentiation of myoblasts into myotubes by acting either downstream or
independently of myogenin.
23024

Gene ID:	23024
Pathways:	Skeletal Muscle Fiber Development
Application Details	
Application Notes:	IF(IHC-P) 1:50-200
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	1 μg/μL
Buffer:	Aqueous buffered solution containing 0.01M TBS (pH 7.4) with 1 % BSA, 0.03 % Proclin300 and 50 % Glycerol.
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store at -20°C. Aliquot into multiple vials to avoid repeated freeze-thaw cycles.

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Expiry Date:

12 months

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