Best Tools for immunology Research

OBSCN rabbit pAb

Catalog No :	YN7458
Reactivity :	Human
Applications :	WB
Target :	OBSCN
Gene Name :	OBSCN KIAA1556 KIAA1639
Protein Name :	Obscurin (EC 2.7.11.1) (Obscurin-RhoGEF) (Obscurin-myosin light chain kinase) (Obscurin-MLCK)
Human Gene Id :	84033
Human Swiss Prot No :	Q5VST9
Mouse Swiss Prot No :	A2AAJ9
Immunogen :	Synthesized peptide derived from human OBSCN
Specificity :	This antibody detects endogenous levels of OBSCN at Human
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Polyclonal, Rabbit,IgG
Dilution :	WB 1:500-2000
Purification :	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Concentration :	1 mg/ml
Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)
Molecularweight :	876kD

Function : Structural component of striated muscles which plays a role in myofibrillogenesis. Probably involved in the assembly of myosin into sarcomeric A bands in striated muscle . Has serine/threonine protein kinase activity and phosphorylates N-cadherin CDH2 and sodium/potassium-transporting ATPase subunit ATP1B1 (By similarity). Binds (via the PH domain) strongly to phosphatidylinositol 3,4-bisphosphate (PtdIns(3,4)P2) and phosphatidylinositol 4,5-bisphosphate (PtdIns(4,5)P2), and to a lesser extent to phosphatidylinositol 3-phosphate (PtdIns(3)P), phosphatidylinositol 4-phosphate (PtdIns(4)P), phosphatidylinositol 5-phosphate (PtdIns(5)P) and phosphatidylinositol 3,4,5-trisphosphate (PtdIns(3,4,5)P3) .

Subcellular Location : [Isoform 3]: Cytoplasm, myofibril, sarcomere, M line . Cytoplasm, myofibril, sarcomere, Z line . In differentiating skeletal muscle cells, isoform 3 primarily localizes to the sarcomeric M-line and less frequently to the Z-disk (PubMed:12527750). Isoform 3 colocalizes with ANK1 isoform Mu17/ank1.5 at the M-line in differentiated skeletal muscle cells (PubMed:12527750).; Cytoplasm, myofibril, sarcomere, M line . Cytoplasm, myofibril, sarcomere, Z line . Cell membrane, sarcolemma . Nucleus . Colocalizes with CDH2 and ATP1B1 to the sarcolemma and to intercalating disks in cardiac muscles. Colocalizes with ATP1B1 to M line and Z line in cardiac muscles. .

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