

PLEKHM3 Antibody
Catalog # ASC11017**Specification****PLEKHM3 Antibody - Product Information**

Application	IHC, IF, WB
Primary Accession	Q6ZWE6
Other Accession	Q6ZWE6 , 172046173
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Application Notes	PLEKHM3 antibody can be used for detection of PLEKHM3 by Western blot at 1 - 2 µg/mL. Antibody can also be used for immunohistochemistry starting at 5 µg/mL. For immunofluorescence start at 20 µg/mL.

PLEKHM3 Antibody - Additional Information

Gene ID	389072
Target/Specificity	
PLEKHM3;	

Reconstitution & Storage

PLEKHM3 antibody can be stored at 4°C for three months and -20°C, 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

PLEKHM3 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

PLEKHM3 Antibody - Protein Information

Name PLEKHM3 ([HGNC:34006](#))

Function

Involved in skeletal muscle differentiation. May act as a scaffold protein for AKT1 during muscle differentiation.

Cellular Location

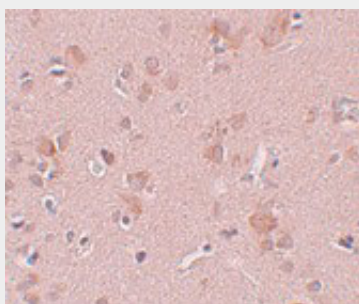
Cytoplasm {ECO:0000250|UniProtKB:Q8BM47}. Golgi apparatus {ECO:0000250|UniProtKB:Q8BM47}. Cell membrane {ECO:0000250|UniProtKB:Q8BM47}. Note=Before differentiation of muscle cells, localized to the Golgi apparatus. During muscle differentiation shuttles to the plasma membrane. {ECO:0000250|UniProtKB:Q8BM47}

PLEKHM3 Antibody - Protocols

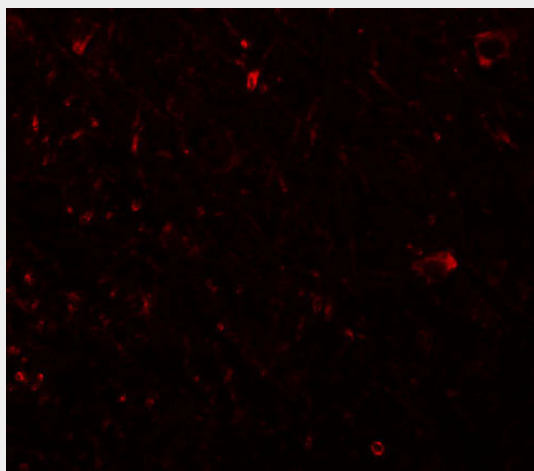
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

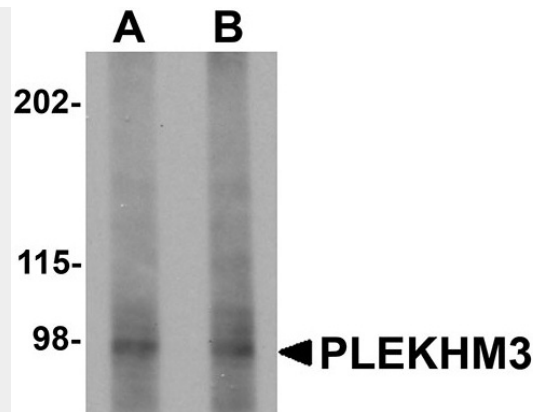
PLEKHM3 Antibody - Images



Immunohistochemistry of PLEKHM3 in human brain tissue with PLEKHM3 antibody at 5 μ g/mL.



Immunofluorescence of PLEKHM3 in human brain tissue with PLEKHM3 antibody at 20 μ g/mL.



Western blot analysis of PLEKHM3 in mouse skeletal muscle tissue lysate with PLEKHM3 antibody at (A) 1 and (B) 2 $\mu\text{g/mL}$.

PLEKHM3 Antibody - Background

PLEKHM3 Antibody: PLEKHM3, also known as DAPR, is a member of the M family of Pleckstrin homology domain-containing proteins. PLEKHM3 was initially identified through chromatin immunoprecipitation and CpG microarray analysis examining proteins regulated by myocyte-enhancing factor 2. In C2C12 myoblast cells, PLEKHM3 binds to the PI3K signaling member protein kinase B in the cytosol prior to differentiation into myotubes. Following the initiation of differentiation, PLEKHM3 was also found in membrane fractions. Knockdown of PLEKHM3 expression by RNAi resulted in the inhibition of myotube formation, suggesting that PLEKHM3 is a key component required by myoblasts for orchestrating their differentiation during myogenesis.

PLEKHM3 Antibody - References

Virtanen C, Paris J, and Takahashi M. Identification and characterization of a novel gene, *dapr*, involved in skeletal muscle differentiation and protein kinase B signaling. *J. Biol. Chem.* 2009; 284:1636-43.