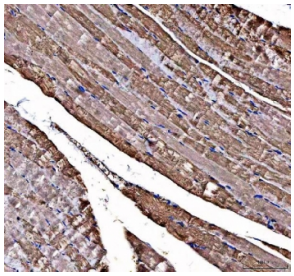
DOK7 Antibody / Docking protein 7 (RQ4928)

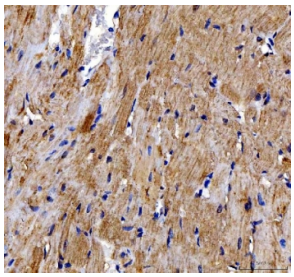
Catalog No.	Formulation	Size
RQ4928	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

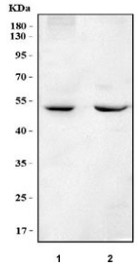
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	Q18PE1
Localization	Cell membrane, cytoplasmic
Applications	Western blot: 0.5-1ug/ml Immunohistochemistry (FFPE): 2-5ug/ml Flow cytometry: 1-3ug/million cells
Limitations	This DOK7 antibody is available for research use only.



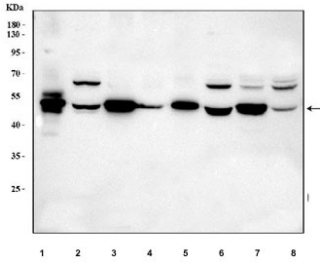
IHC staining of FFPE human skeletal muscle tissue with DOK7 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



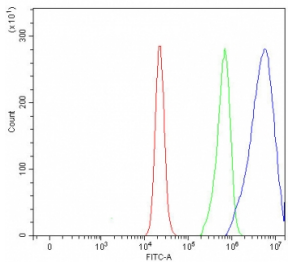
IHC staining of FFPE rat heart tissue with DOK7 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



Western blot testing of human 1) MCF7 and 2) RT4 cell lysate with DOK7 antibody. Predicted molecular weight ~53 kDa.



Western blot testing of 1) rat skeletal muscle, 2) rat brain, 3) rat heart, 4) rat L6, 5) mouse skeletal muscle, 6) mouse brain, 7) mouse heart and 8) mouse C2C12 cell lysate with DOK7 antibody. Predicted molecular weight ~53 kDa.



Flow cytometry testing of fixed and permeabilized human RT4 cells with DOK7 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= DOK7 antibody.

Description

Dok-7 is a non-catalytic cytoplasmic adaptor protein that is expressed specifically in muscle and is essential for the formation of neuromuscular synapses. Further, Dok-7 contains pleckstrin homology (PH) and phosphotyrosine-binding (PTB) domains that are critical for Dok-7 function. It is mapped to 4p16.3. The protein encoded by this gene is essential for neuromuscular synaptogenesis. The protein functions in aneural activation of muscle-specific receptor kinase, which is required for postsynaptic differentiation, and in the subsequent clustering of the acetylcholine receptor in myotubes. This protein can also induce autophosphorylation of muscle-specific receptor kinase. Mutations in this gene are a cause of familial limb-girdle myasthenia autosomal recessive, which is also known as congenital myasthenic syndrome type 1B. Alternative splicing results in multiple transcript variants.

Application Notes

Optimal dilution of the DOK7 antibody should be determined by the researcher.

Immunogen

Amino acids STVEERVAQEALETLQLEKRLSLLSHAGR from the human protein were used as the immunogen for the DOK7 antibody.

Storage

After reconstitution, the DOK7 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

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