

DOK7 Antibody (N-term)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP13568a**Specification**

DOK7 Antibody (N-term) - Product Information

Application	WB,E
Primary Accession	Q18PE1
Other Accession	NP_001158145.1 , NP_775931.3
Reactivity	Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	53097
Antigen Region	26-55

DOK7 Antibody (N-term) - Additional Information**Gene ID** 285489**Other Names**

Protein Dok-7, Downstream of tyrosine kinase 7, DOK7, C4orf25

Target/Specificity

This DOK7 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 26-55 amino acids from the N-terminal region of human DOK7.

Dilution

WB~~1:1000

E~~Use at an assay dependent concentration.

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

DOK7 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

DOK7 Antibody (N-term) - Protein Information**Name** DOK7**Synonyms** C4orf25

Function Probable muscle-intrinsic activator of MUSK that plays an essential role in neuromuscular synaptogenesis. Acts in aneural activation of MUSK and subsequent acetylcholine receptor (AChR) clustering in myotubes. Induces autophosphorylation of MUSK.

Cellular Location

Cell membrane; Peripheral membrane protein. Synapse. Note=Accumulates at neuromuscular junctions.

Tissue Location

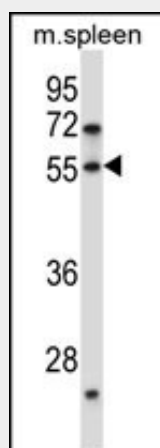
Preferentially expressed in skeletal muscle and heart. Present in thigh muscle, diaphragm and heart but not in the liver or spleen (at protein level).

DOK7 Antibody (N-term) - 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](#)

DOK7 Antibody (N-term) - Images



DOK7 Antibody (N-term) (Cat. #AP13568a) western blot analysis in mouse spleen tissue lysates (35ug/lane). This demonstrates the DOK7 antibody detected the DOK7 protein (arrow).

DOK7 Antibody (N-term) - Background

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.

DOK7 Antibody (N-term) - References

Bergamin, E., et al. Mol. Cell 39(1):100-109(2010)
Srouf, M., et al. Neuromuscul. Disord. 20(7):453-457(2010)
Maselli, R.A., et al. Hum. Mol. Genet. 19(12):2370-2379(2010)
Ben Ammar, A., et al. J. Neurol. 257(5):754-766(2010)
Vogt, J., et al. J. Med. Genet. 46(5):338-340(2009)