

Product datasheet

Anti-DOK7 antibody ab75049

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Overview

Product name	Anti-DOK7 antibody
Description	Rabbit polyclonal to DOK7
Host species	Rabbit
Tested applications	Suitable for: WB, IHC-P, ICC/IF
Species reactivity	Reacts with: Mouse, Human
Immunogen	Synthetic peptide derived from N-terminus of human DOK7.
General notes	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Storage buffer	pH: 7.40 Preservative: 0.02% Sodium azide Constituents: 50% Glycerol (glycerin, glycerine), 0.87% Sodium chloride, PBS
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab75049 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/500 - 1/1000. Detects a band of approximately 53 kDa (predicted molecular weight: 53 kDa).
IHC-P		1/50 - 1/100.
ICC/IF		1/500 - 1/1000.

Target

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.

Tissue specificity

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

Involvement in disease

Defects in DOK7 are the cause of familial limb-girdle myasthenia autosomal recessive (LGM) [MIM:254300]; also called congenital myasthenic syndrome type 1B or CMS1B. LGM is a congenital myasthenic syndrome characterized by a typical 'limb girdle' pattern of muscle weakness with small, simplified neuromuscular junctions but normal acetylcholine receptor and acetylcholinesterase function.

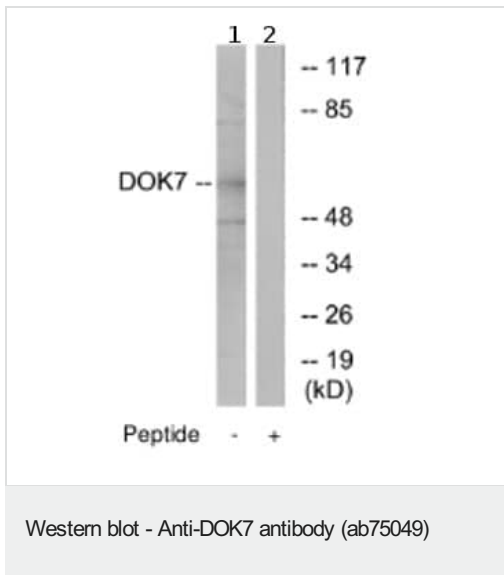
Sequence similarities

Contains 1 IRS-type PTB domain.
Contains 1 PH domain.

Cellular localization

Cell membrane. Cell junction > synapse. Accumulates at neuromuscular junctions.

Images



All lanes : Anti-DOK7 antibody (ab75049) at 1/500 dilution

Lane 1 : extracts from mouse brain cells

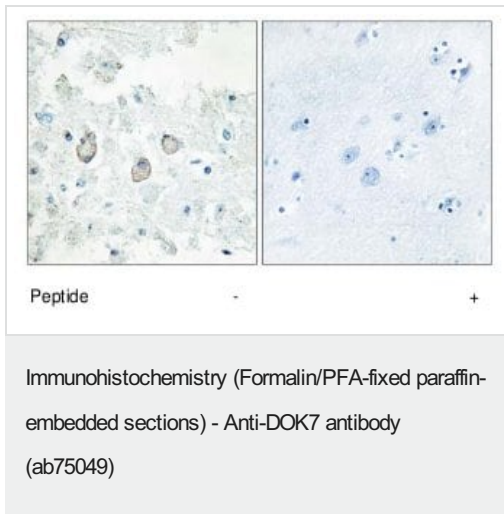
Lane 2 : extracts from mouse brain cells with immunising peptide at 5 µg

Lysates/proteins at 5 µg per lane.

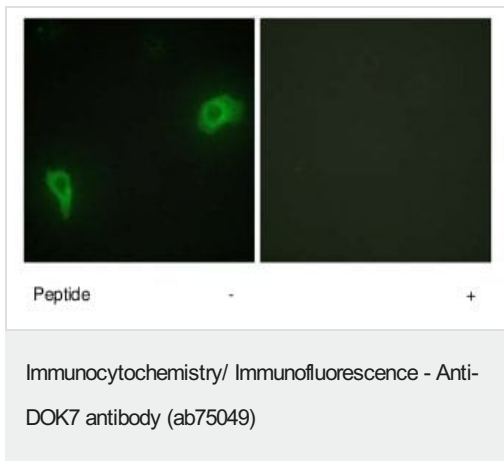
Predicted band size: 53 kDa

Observed band size: 53 kDa

Additional bands at: 46 kDa, 80 kDa. We are unsure as to the identity of these extra bands.



Human brain tissue with ab75049 at 1/50 dilution, in the absence and presence of the immunising peptide.



HepG2 cells with ab75049 at 1/500 dilution, in the absence and presence of the immunising peptide.

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