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Anti-DOK7 Antibody

Catalog # AP60726

Product Information

Application	WB, IHC, IF/IC
Primary Accession	Q18PE1
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	53097

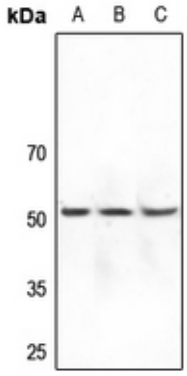
Additional Information

Gene ID	285489
Other Names	C4orf25; Protein Dok-7; Downstream of tyrosine kinase 7
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the N-term region of human DOK7. The exact sequence is proprietary.
Dilution	WB~~WB (1/500 - 1/1000) IHC~~1:100~500 IF/IC~~N/A
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

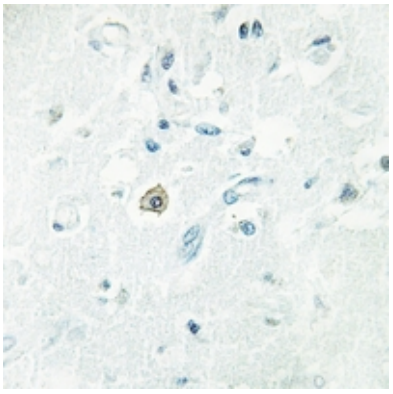
Protein Information

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).

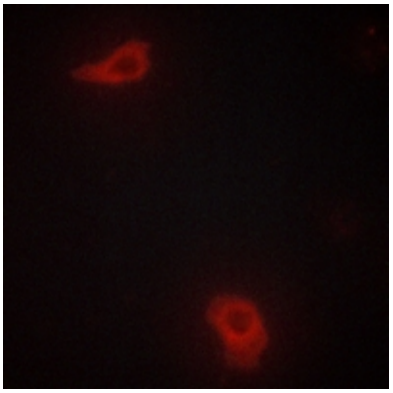
Images



Western blot analysis of DOK7 expression in HEK293T (A), mouse brian (B), rat brain (C) whole cell lysates.
(Predicted band size: 53 kD; Observed band size: 53 kD)



Immunohistochemical analysis of DOK7 staining in human brain formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Immunofluorescent analysis of DOK7 staining in HepG2 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a hidified chamber. Cells were washed with PBST and incubated with a AF594-conjugated secondary antibody (red) in PBS at room temperature in the dark.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.