Human DOK7 Alexa Fluor® 647-conjugated Antibody

Monoclonal Mouse IgG_{2A} Clone # 651601

Catalog Number: FAB6398R

100 µg

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human DOK7 in direct ELISAs.
Source	Monoclonal Mouse IgG_{2A} Clone # 651601
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	*E. coli*-derived recombinant human DOK7 Ala179-Pro299 Accession # Q18PE1
Conjugate	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: *Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.*

Immunocytochemistry	Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

DOK7 (Downstream of kinase 7) is a 55 kDa member of the DOK family of cytoplasmic adaptor proteins. It links the acetylcholine receptor and the receptor tyrosine kinase MuSK in skeletal and cardiac muscle. Mutations can cause familial myasthenic syndromes. The 504 amino acid (aa) human DOK7 contains pleckstrin homology (aa 7-109) and phosphotyrosine-binding (PTK, aa 125-236) and SH2 domains, and a C-terminal nuclear export signal. Splicing isoforms of 255, 608 and 366 aa diverge at aa 175 or 500, or have 40 divergent aa replacing aa 1-178, respectively. Within aa 179-299, human DOK7 shares 92% and 93% aa identity with mouse and rat DOK7, respectively.

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