Human DOK3 Alexa Fluor® 488-conjugated Antibody

Monoclonal Mouse IgG_{2B} Clone # 642316

Catalog Number: FAB4795G

100 µg

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human DOK3 in direct ELISAs and Western blots.
Source	Monoclonal Mouse IgG_{2B} Clone # 642316
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	*E. coli*-derived recombinant human DOK3 Gly181-Lys271 Accession # Q7L591
Conjugate	Alexa Fluor 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 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.*

Western Blot	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

DOK3 (downstream of kinase 3) is a 53 kDa (predicted) member of the DOK family of cytoplasmic adaptor proteins and is expressed in B cells and macrophages. Human DOK3 cDNA encodes 496 amino acids (aa) including one pleckstrin homology region (aa 63-179) and an IRS-type phosphotyrosine binding domain (PTB) (aa 213-317). Alternate splicing generates 330, 228 and 216 aa isoforms with N-terminal and C-terminal truncations and substitutions. Human DOK3 shares approximately 80% aa sequence identity with mouse and rat DOK3 within aa 181-271, which are common to all four isoforms. Phosphorylation of tyrosine residues in DOK3 regulates its interaction with SH2 and SH3 containing proteins, leading to inhibition of signaling from immunoreceptors.

PRODUCT SPECIFIC NOTICES

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