Human DOK3 Antibody

Monoclonal Mouse IgG_{2B} Clone # 642316

Catalog Number: MAB4795

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
Formulation	Lyophilized from a 0.2 μm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 μm filtered solution in PBS.

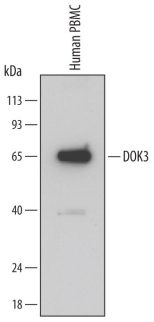
APPLICATIONS

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.*

	Recommended Concentration	Sample
Western Blot	0.25 µg/mL	See Below

DATA

Western Blot



Detection of Human DOK3 by Western Blot. Western blot shows lysates of human peripheral blood mononuclear cells (PBMC). PVDF Membrane was probed with 0.25 µg/mL of Mouse Anti-Human DOK3 Monoclonal Antibody (Catalog # MAB4795) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF007). A specific band was detected for DOK3 at approximately 65 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 2.

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	**Use a manual defrost freezer and avoid repeated freeze-thaw cycles.** ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

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.

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