Human STYK1
Alexa Fluor® 488-conjugated Antibody

Monoclonal Mouse IgG_{2A} Clone # 484713

Catalog Number: IC6668G

100 µg

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human STYK1 in direct ELISAs.
Source	Monoclonal Mouse IgG_{2A} Clone # 484713
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	*E. coli*-derived recombinant human STYK1 Asp72-Val320 Accession # Q6J9G0
Conjugate	Alexa Fluor 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 nm
Formulation	Supplied 0.2 mg/mL in a saline solution containing BSA and 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.*

	Recommended Concentration	Sample
Intracellular Staining by Flow Cytometry	0.25-1 µg/10^6 cells	HeLa human cervical epithelial carcinoma cell line

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

STYK1 (Ser/Thr/Tyr kinase 1; also NOK, or “novel oncogene with kinase-domain”) is a 50 kDa, distant member of the FGFR/PDGFR family of tyrosine kinases. It appears to be intracellular, even though it contains a putative transmembrane segment. Both MAPK and PI3K pathways are activated by STYK1 activity, and STYK1 is associated with oncogenesis. Human STYK1 is 422 amino acids (aa) in length. It contains 25 aa N-terminus, a 21 aa putative transmembrane segment, and a 396 aa C-terminus that contains a Tyr-kinase domain (aa 118-372). Over aa 72-320, human STYK1 is 77% and 83% identical to mouse and canine STYK1, respectively.

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