

DESCRIPTION

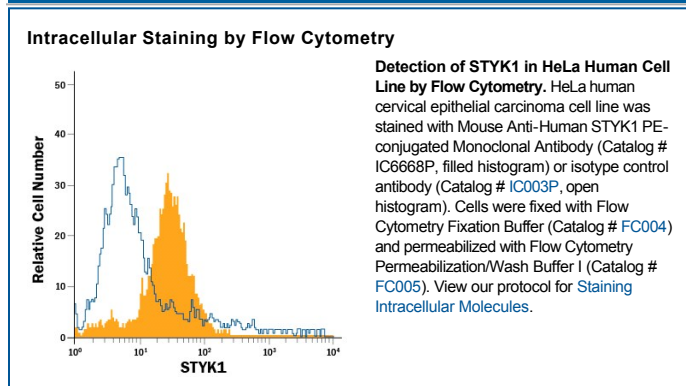
Species Reactivity	Human
Specificity	Detects human STYK1 in direct ELISAs.
Source	Monoclonal Mouse IgG _{2A} Clone # 484713
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human STYK1 Asp72-Val320 Accession # Q6J9G0
Conjugate	Phycoerythrin Excitation Wavelength: 488 nm Emission Wavelength: 565-605 nm
Formulation	Supplied in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details. *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	10 μ L/10 ⁶ cells	See Below

DATA



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. <ul style="list-style-type: none"> 12 months from date of receipt, 2 to 8 °C as supplied.

BACKGROUND

STYK1 (Ser/Thr/Tyr kinase 1) also known as Novel Oncogene with Kinase-domain (NOK), is a 46-50 kDa, member of the FGFR/PDGFR (or RPTK-like) family of tyrosine kinases. It appears to be a transmembrane (TM) component of early endosomes, and likely participates in the trafficking of cell membrane receptors such as the EGFR. STYK1 appears to form multimers, a process regulated by its TM domain. Cells recognized to express STYK1 are principally tumor cells, as normal cell expression seems to be restricted, and shows little correlation between mice and human. 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.