

## DESCRIPTION

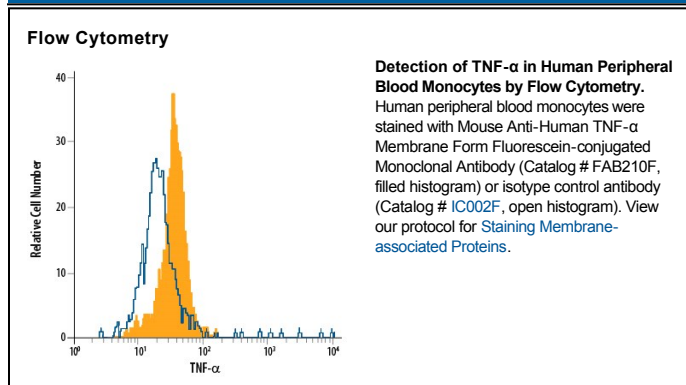
<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects cell surface expressed TNF- $\alpha$ (membrane and receptor bound forms) by flow cytometry. Detects human TNF- $\alpha$ in direct ELISAs and Western blots. In direct ELISAs, approximately 25–50% cross-reactivity with recombinant porcine TNF- $\alpha$ and recombinant rhesus macaque TNF- $\alpha$ is observed but no cross-reactivity with recombinant cotton rat TNF- $\alpha$ , recombinant rat TNF- $\alpha$ , recombinant human (rh) LT $\alpha$ 1/ $\beta$ 2, rhLT $\alpha$ 2/ $\beta$ 1, rhAPRIL, rhBAFF, rhEDA-A2, recombinant mouse EDA, rhFas Ligand, rhLIGHT, rhOX40 Ligand, rhTRAIL, rhTRANCE, rhTWEAK, or rhVEGI is observed.
<b>Source</b>	Monoclonal Mouse IgG <sub>1</sub> Clone # 6401
<b>Purification</b>	Protein A or G purified from ascites
<b>Immunogen</b>	<i>E. coli</i> -derived recombinant human TNF- $\alpha$ Gly57-Leu233 (predicted) Accession # P01375
<b>Conjugate</b>	Fluorescein Excitation Wavelength: 488 nm Emission Wavelength: 515-545 nm (FITC)
<b>Formulation</b>	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
<b>Flow Cytometry</b>	10 $\mu$ L/10 <sup>6</sup> cells	See Below

## DATA



## PREPARATION AND STORAGE

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

## BACKGROUND

TNF- $\alpha$  is a trimeric glycoprotein active in both membrane bound and secreted forms. TNF- $\alpha$  is produced by several lymphoid cells as well as by astrocytes, endothelial cells, and smooth muscle cells. TNF- $\alpha$  binds to TNF RI and TNF RII present on virtually all cell types where it triggers the activation of multiple signal transduction pathways and modulates the expression of a wide variety of genes.