

Anti-TNF- α hIgG1 Antibody (CT-P17)

Product Information

GM-49267AB-10	10 μ g
GM-49267AB-100	100 μ g
GM-49267AB-1000	1 mg

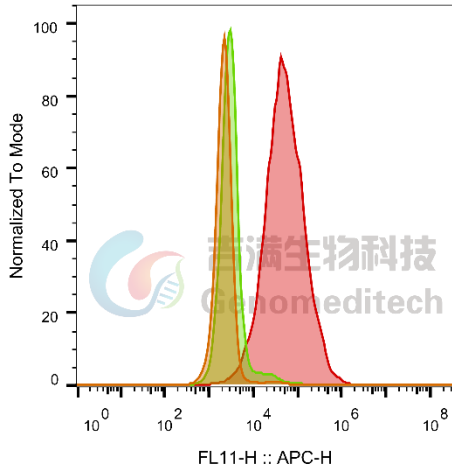
Antibody Information

Species Reactivity	Human
Clone	CT-P17
Source/Isotype	Monoclonal Human IgG1, κ
Application	Block assay
Specificity	Detects TNF- α .
Gene	TNF- α
Other Names	DIF; TNFA; TNFSF2; TNLG1F
Gene ID	7124
Background	<p>TNFα is expressed as a type II membrane protein attached by a signal anchor transmembrane domain in the propeptide, and is processed by a matrix metallo-proteinase, termed TNFα-converting enzyme (TACE). TNF is predominantly produced by macrophages, but can also be secreted in limited quantities by B cells, natural killer cells, endothelial and muscle cells, fibroblasts, and osteoclasts. TNF exists in a membrane-bound and a soluble form. During synthesis, TNF translocates to the cell membrane where the TNF-converting enzyme releases the membrane-bound 26 kDa molecule into the extracellular milieu as a 17 kDa protein. The activity of this enzyme not only releases TNF from the plasma membrane, but also cleaves TNF receptors off the surface, which act as an inhibitor of TNF action. Both membrane-bound and released TNF are active.</p>
Storage	Store at 2-8°C short term (1-2 weeks). Store at \leq -20°C long term. Avoid repeated freeze-thaw.
Formulation	Phosphate-buffered solution, pH 7.2.
Endotoxin	< 1 EU/mg, determined by LAL gel clotting assay

Data Examples

Flow cytometry

The recommended usage range is 0.5-4 μg per test. Membrane Bound H_TNF α (cleavage-resistant) CHO-K1 Cell Line (Catalog # GM-C33297) was stained with Anti-TNF- α hIgG1 Antibody (Catalog # GM-49267AB) or isotype control antibody, followed by anti-Human IgG APC-conjugated Secondary Antibody .

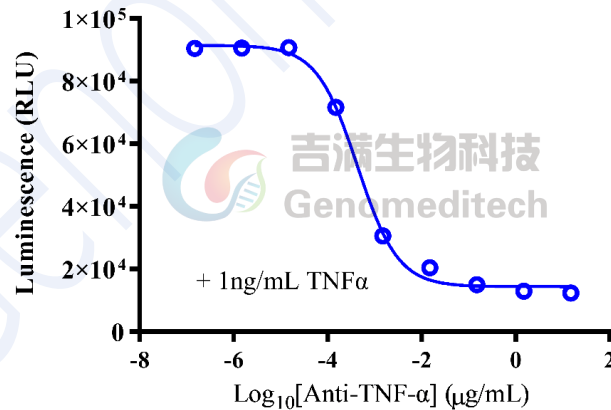


SampleID	Geometric Mean : FL11-H
CHO-K1 anti-TNF α +APC-2nd Ab	2235
CHO-K1 H_TNF α H_IgG+APC-2nd Ab	3211
CHO-K1 H_TNF α anti-TNF α +APC-2nd Ab	50787

Block assay

Anti-TNF- α hIgG1 Antibody (CT-P17) (Catalog # GM-49267AB) inhibits H_TNFR2 Reporter Jurkat Cell Line (Catalog # GM-C25209) Luminescence induced by Recombinant Human TNF- α . IC₅₀ for this effect is 0.4315 ng/mL.

H_TNFR2 Reporter Jurkat Cell Line



	H_TNFR2 Reporter Jurkat Cell Line
IC ₅₀	0.0004315