

30-2847: Anti-Human CD39 FITC MAb (Clone: TU66)

Clonality :	Monoclonal
Clone Name :	TU66
Application :	FACS
Reactivity :	Human
Conjugate :	FITC
Gene :	ENTPD1
Gene ID :	953
Uniprot ID :	P49961
Alternative Name :	ETDH1, LCAA, Ecto-ATPase 1, Ecto-apyrase, ENTPD1
Isotype :	Mouse IgG2b kappa

Description

Specificity: The mouse monoclonal antibody TU66, also known as Tü66, recognizes an extracellular epitope of CD39, a 78 kDa cell surface enzyme expressed by regulatory T cells, mantle zone B cells, activated T cells, NK cells, macrophages, dendritic cells, neurons, endothelial cells and platelets.

CD39, also known as ectonucleoside triphosphate diphosphohydrolase 1 (ENTPD1), is a cell surface enzyme (with intracellular N- and C-terminus) which hydrolyzes extracellular ATP and ADP to AMP. Inhibition of its enzymatic activity may confer anticancer benefits. The formation of oligomers in the plasma membrane is essential for enzyme activity. It is expressed on Treg cells, and in other cell types, such as mantle zone B cells, activated T cells, NK cells, macrophages, dendritic cells, neurons, endothelial cells and platelets. Hydrolysis of ATP and ADP inhibits inflammatory and thrombotic responses. In the nervous system, it regulates purinergic neurotransmission.

Product Info

Amount :	100 tests
Purification :	Purified antibody is conjugated with fluorescein isothiocyanate (FITC) under optimum conditions and unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography.
Content :	Stabilizing phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Storage condition :	Store at 2-8°C. Protect from prolonged exposure to light. Do not freeze.

Application Note

Flow cytometry: The reagent is designed for analysis of human blood cells using 4 µl reagent / 100 µl of whole blood or 10⁶ cells in a suspension. The content of a vial (0.4 ml) is sufficient for 100 tests.

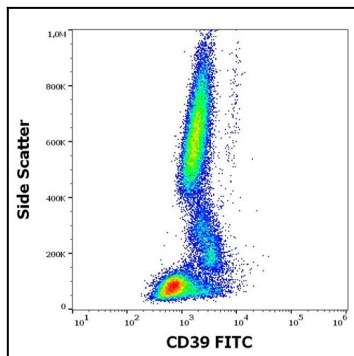


Figure1 : Flow cytometry surface staining pattern of human peripheral whole blood stained using anti-human CD39 (TU66) FITC antibody (4 μ l reagent / 100 μ l of peripheral whole blood).

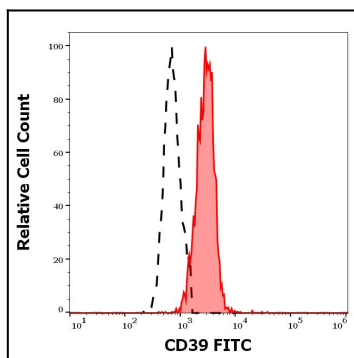


Figure 2: Separation of human monocytes (red-filled) from CD39 negative lymphocytes (black-dashed) in flow cytometry analysis (surface staining) of human peripheral whole blood stained using anti-human CD39 (TU66) FITC antibody (4 μ l reagent / 100 μ l of peripheral whole blood).