

## 30-2568: Anti-Human CD39 APC (Clone : TU66)

<b>Clonality :</b>	Monoclonal
<b>Clone Name :</b>	TU66
<b>Application :</b>	FACS
<b>Reactivity :</b>	Human
<b>Conjugate :</b>	APC
<b>Gene :</b>	ENTPD1
<b>Gene ID :</b>	953
<b>Alternative Name :</b>	ETDH1, LCAA, Ecto-ATPase 1, Ecto-apyrase, ENTPD1,ectonucleoside triphosphate diphosphohydrolase 1
<b>Isotype :</b>	Mouse IgG2b kappa

### Description

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.

Specificity : The mouse monoclonal antibody TU66, also known as TÅ¼66, 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.

### Product Info

<b>Amount :</b>	100 tests
<b>Purification :</b>	The purified antibody is conjugated with allophycocyanin (APC) under optimum conditions. The conjugate is purified by size-exclusion chromatography.
<b>Content :</b>	Formulation : Stabilizing phosphate buffered saline (PBS) solution containing 15 mM sodium azide
<b>Storage condition :</b>	Store in the dark at 2-8°C. Do not freeze. Avoid prolonged exposure to light.

### Application Note

Flow cytometry: The reagent is designed for analysis of human blood cells using 10 Å¼l reagent / 100 Å¼l of whole blood or 10<sup>6</sup> cells in a suspension. The content of a vial (1 ml) is sufficient for 100 tests.

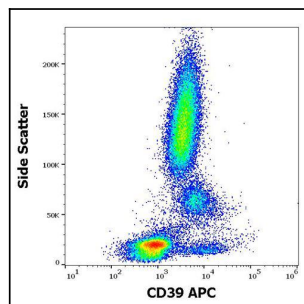


Figure 1 : Flow cytometry surface staining pattern of human peripheral whole blood stained using anti-human CD39 (TU66) APC antibody (10 Å¼l reagent / 100 Å¼l of peripheral whole blood).

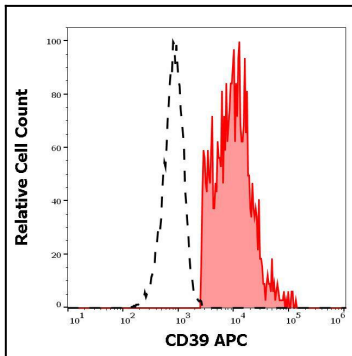


Figure 2 : Separation of human CD39 positive lymphocytes (red-filled) from human CD39 negative lymphocytes (black-dashed) in flow cytometry analysis (surface staining) of human peripheral whole blood stained using anti-human CD39 (TU66) APC antibody (10  $\mu$ l reagent / 100  $\mu$ l of peripheral whole blood).