



11-184-C100

## Monoclonal Antibody to CD39 Purified Antibody (0.1 mg)

Clone: TU66

**Isotype:** Mouse IgG2b

Specificity: The mouse monoclonal antibody TU66, also known as Tü66, recognizes 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.

HLDA IV; WS Code A54

Regulatory Status: RUO

Species Reactivity: Human

**Application:** Flow Cytometry

Purity: > 95% (by SDS-PAGE)

**Purification:** Purified by protein-A affinity chromatography

Concentration: 1 mg/ml

Storage Buffer: Phosphate buffered saline (PBS) with 15 mM sodium azide, approx. pH 7.4

Storage / Stability: Store at 2-8°C. Do not freeze. Do not use after expiration date stamped on vial

label.

**Expiration:** See vial label

**Lot Number:** See vial label

Background: 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 DATA SHEET

## References:

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\*Wang YM, McRae JL, Robson SC, Cowan PJ, Zhang GY, Hu M, Polhill T, Wang Y, Zheng G, Wang Y, Lee VW, Unwin RJ, Harris DC, Dwyer KM, Alexander SI: Regulatory T cells participate in CD39-mediated protection from renal injury. Eur J Immunol. 2012 Sep;42(9):2441-51.

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