

Recombinant CD39 Monoclonal Antibody

catalog number: **AN301981L**

Note: Centrifuge before opening to ensure complete recovery of vial contents.

Description

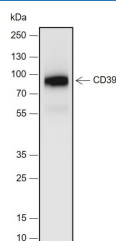
Reactivity	Human;Mouse
Immunogen	Recombinant fragment
Host	Rabbit
Isotype	IgG, κ
Clone	A701
Purification	Protein A purified
Buffer	PBS, 50% glycerol, 0.05% Proclin 300, 0.05% protein protectant.

Applications

Recommended Dilution

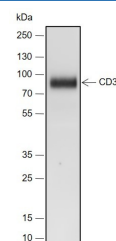
WB	1:1000-1:2000
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Data



Western Blot with CD39 Monoclonal Antibody at dilution of 1:2000. Lane 1: Human placenta

Observed-MW:78 kDa
Calculated-MW:58 kDa



Western Blot with CD39 Monoclonal Antibody at dilution of 1:2000. Lane 1: Mouse lung

Observed-MW:78 kDa
Calculated-MW:58 kDa

Preparation & Storage

Storage	Store at -20°C Valid for 12 months. Avoid freeze / thaw cycles.
Shipping	Ice bag

Background

CD39, also known as ectonucleoside triphosphate diphosphohydrolase 1 (NTPDase 1), is a multi-pass membrane ectoenzyme that metabolizes adenosine-5'-triphosphate (ATP) to regulate purinergic signaling. Purinergic signaling by extracellular ATP and its metabolites regulate many biological processes, including vascular tone, digestion, neuronal function, and inflammation in both normal and diseased states. CD39 is expressed in endothelial cells in the vasculature to regulate local platelet purinergic signaling via metabolism of ATP to adenosine. Accordingly, CD39 regulates platelet activation aggregation and contributes to the antithrombotic properties of endothelial cells. ATP and its metabolites also finely modulate the activity of T cells and macrophages. Immunomodulation is regulated, in part, by the availability of extracellular ATP and adenosine, suggesting that CD39 may play an immunosuppressive role in the tumor microenvironment.

For Research Use Only

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