Anti-CD203C Antibody [4C1H2]

EM1710-93

Product Type:	Mouse monoclonal IgG1, primary antibodies
Species reactivity:	Human
Applications:	WB, IHC-P, FC
Molecular Wt:	100.1kDa
Clone number:	4C1H2

Description: The protein encoded by this gene belongs to a series of ectoenzymes that are involved in hydrolysis of extracellular nucleotides. These ectoenzymes possess ATPase and ATP pyrophosphatase activities and are type II transmembrane proteins. Expression of the related rat mRNA has been found in a subset of immature glial cells and in the alimentary tract. The corresponding rat protein has been detected in the pancreas, small intestine, colon, and liver. The human mRNA is expressed in glioma cells, prostate, and uterus. Expression of the human protein has been detected in uterus, basophils, and mast cells. Two transcript variants, one protein coding and the other non-protein coding, have been found for this gene.

Immunogen: Purified recombinant fragment of human CD203C (AA: extra 45-163) expressed in E. Coli.

Positive control: HL-60 cells renal cancer

Subcellular location: Membrane. Secreted. Located to the apical surface in intestinal and kidney epithelial cells. Located to the cell surface of basophils, and to the apical plasma membrane of bile duct cells. Secreted in serum, and in lumen of epithelial cells.

Database links: SwissProt: O14638 Human

Recommended Dilutions:

WB	1:500-1:2,000
IHC-P	1:50-1:200
FC	1:100-1:200

Storage Buffer: Purified antibody in PBS with 0.05% sodium azide.

Storage Instruction: 4℃; -20℃ for long term storage.

Purity: Protein G affinity purified.

Images

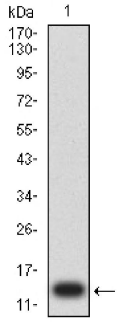

Fig1: Western blot analysis of CD203C against human CD203C (AA: extra 45-163) recombinant protein. Proteins were transferred to a PVDF membrane and blocked with 5% BSA in PBS for 1 hour at room temperature. The primary antibody (EM1710-93, 1/500) was used in 5% BSA at room temperature for 2 hours. Goat Anti-Mouse IgG - HRP Secondary Antibody at 1:5,000 dilution was used for 1 hour at room temperature.

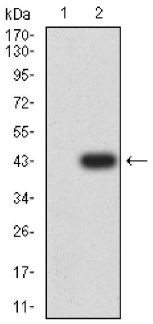

Fig2: Western blot analysis of EM1710-93 against HEK293 (1) and CD203C (AA: extra 45-163)-hIgGFc transfected HEK293 (2) cell lysate.Proteins were transferred to a PVDF membrane and blocked with 5% BSA in PBS for 1 hour at room temperature. The primary antibody (EM1710-93, 1/500) was used in 5% BSA at room temperature for 2 hours. Goat Anti-Mouse IgG - HRP Secondary Antibody at 1:5,000 dilution was used for 1 hour at room temperature.

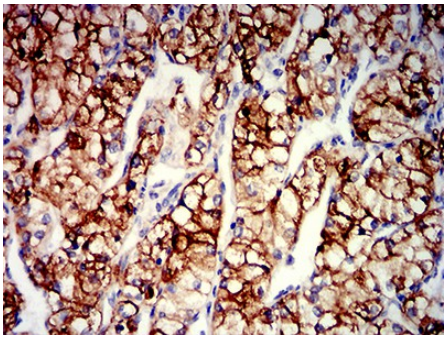

Fig3: Immunohistochemical analysis of paraffin-embedded human renal cancer tissue using anti-CD203C antibody. The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 8.0) for 20 minutes. The tissues were blocked in 5% BSA for 30 minutes at room temperature, washed with ddH_2O and PBS, and then probed with the primary antibody (EM1710-93, 1/100) for 30 minutes at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.

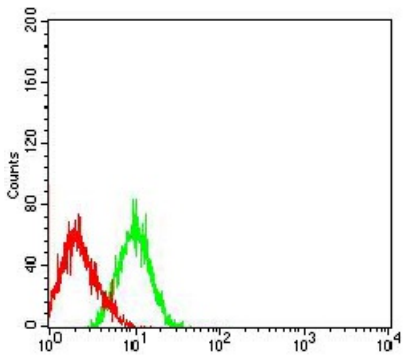

Fig4: Flow cytometric analysis of CD203C was done on HL-60 cells. The cells were fixed, permeabilized and stained with the primary antibody (EM1710-93, 1/100) (green). After incubation of the primary antibody at room temperature for an hour, the cells were stained with a Alexa Fluor 488-conjugated goat anti-Mouse IgG Secondary antibody at 1/500 dilution for 30 minutes. Unlabelled sample was used as a control (cells without incubation with primary antibody; red).

Background References

1. Leuk Lymphoma. 2014 Jan;55(1):92-6.
2. J Allergy Clin Immunol. 2010 Feb;125(2):483-489.e3.