Anti-CD23 Antibody

HA500386

Product Type:	Rabbit polyclonal IgG, primary antibodies
Species reactivity:	Human
Applications:	IHC-P, FC
Molecular Wt:	Predicted band size: 36 kDa.

Description: The protein encoded by this gene is a B-cell specific antigen, and a low-affinity receptor for IgE. It has essential roles in B cell growth and differentiation, and the regulation of IgE production. This protein also exists as a soluble secreted form, then functioning as a potent mitogenic growth factor. Alternatively spliced transcript variants encoding different isoforms have been described for this gene.

Immunogen: Synthetic peptide within human CD23 aa 250-321 / 321 (Extracellular).

Positive control: Human tonsil tissue, Raji.

Subcellular location: Secreted, cell membrane.

Database links: SwissProt: P06734 Human

Recommended Dilutions:

IHC-P	1:50-1:200
FC	1:50-1:100

Storage Buffer: 1*TBS (pH7.4), 1% BSA, 50% Glycerol. Preservative: 0.05% Sodium Azide.

Storage Instruction: Store at +4℃ after thawing. Aliquot store at -20℃. Avoid repeated freeze / thaw cycles.

Purity: Immunogen affinity purified.

Images

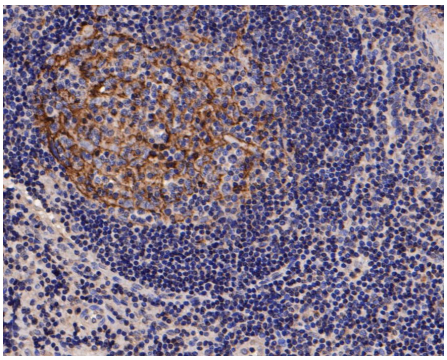

Fig1: Immunohistochemical analysis of paraffin-embedded human tonsil tissue using anti-CD23 antibody. The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 8.0-8.4) for 20 minutes.The tissues were blocked in 5% BSA for 30 minutes at room temperature, washed with ddH_2O and PBS, and then probed with the primary antibody (HA500386, 1/50) 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.

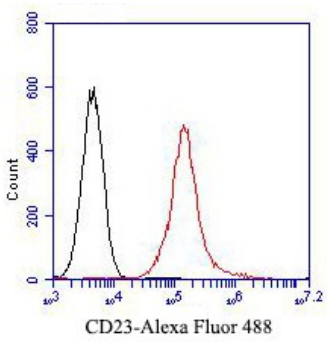

Fig2: Flow cytometric analysis of CD23 was done on Raji cells. The cells were fixed, permeabilized and stained with the primary antibody (HA500386, 1/50) (red). After incubation of the primary antibody at room temperature for an hour, the cells were stained with a Alexa Fluor 488-conjugated Goat anti-Rabbit IgG Secondary antibody at 1/1000 dilution for 30 minutes.Unlabelled sample was used as a control (cells without incubation with primary antibody; black).

Note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

Background References

1. Sutton BJ. et. al. Structure and dynamics of IgE-receptor interactions: FcεRI and CD23/FcεRII. Immunol Rev. 2015 Nov;268(1):222-35.
2. Selb R. et. al. Critical and direct involvement of the CD23 stalk region in IgE binding. J Allergy Clin Immunol. 2017 Jan;139(1).