

Anti-Vaginolysin [23A2] Standard Size Ab00510-10.0

This chimeric human antibody was made using the variable domain sequences of the original Mouse IgG1 format, for improved compatibility with existing reagents, assays and techniques.

Isotype and Format: Human IgG1, Kappa

Clone Number: 23A2

Alternative Name(s) of Target: VLY

UniProt Accession Number of Target Protein:

Published Application(s): WB, Block, ELISA

Published Species Reactivity: G. vaginalis

Immunogen: Recombinant VLY.

Specificity: The antibody binds to VLY with an affinity (Kd) of 0.12 nM and an IC50 of 0.48 nM (determined by hemolytic assay). The antibody has a fair neutralizing capability.

Application Notes: The antibody binds specifically to VLY, a pore-forming toxic member of the cholesterol-dependent cytolysins, produced by the bacterium *Gardnerella vaginalis*. Once released, VLY acts by binding to cholesterol-rich membranes and forming transmembrane pores that result in lysis of the cell. The bacterium *G. vaginalis* is predominant in the vaginal tract of women with bacterial vaginosis (BV). Here releases VLY toxins that cause cytolysis and tissue destruction, and potentially leading to serious adverse effects such as infertility. Antibodies that are able to neutralize the toxic activity of VLY can be used as therapeutic agents for the treatment of BV.

Antibody First Published in: Zvirbliene A, Pleckaityte M, Lasickiene R, Kucinskaite-Kodze I, Zvirblis G. Production and characterization of monoclonal antibodies against vaginolysin: mapping of a region critical for its cytolytic activity. *Toxicon*. 2010 Aug 1;56(1):19-28. [PMID:20298711](#)

Note on publication: Describes the generation of two monoclonal antibodies with neutralizing activity against vaginolysin, the causative agent of bacterial vaginosis.

Product Form

Size: 200 µg Purified antibody.

Purification: Protein A affinity purified

Supplied In: PBS with 0.02% Proclin 300.

Storage Recommendation: Store at 4°C for up to 3 months. For longer storage, aliquot and store at -

20°C.

Concentration: 1 mg/ml.

Important note – This product is for research use only. It is not intended for use in therapeutic or diagnostic procedures for humans or animals.