

## Anti-Vaginolysin [9B4] Standard Size Ab00511-10.6

This is a Fab fragment with a his-tag.

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 Fab fragment, His-Tagged, Kappa

**Clone Number:** 9B4

**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 0.29 nM and an IC50 of 0.067 nM (determined by hemolytic assay). The antibody has a strong 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. The antibody 9B4 has the strongest neutralizing activity, and binds to an epitope region comprising of the amino acids 122 to 268 of VLY.

**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:**

Purified by Immobilized Metal Affinity Chromatography

**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.