Anti-Rabies Virus Glycoprotein [R16E5] Standard Size Ab02097-3.3

This antibody was created using our proprietary Fc Silent™ engineered Fc domain containing key point mutations that abrogate binding to Fc gamma receptors.

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

Isotype and Format: Mouse IgG2b, Fc Silent™, Lambda
Clone Number: R16E5
Alternative Name(s) of Target: PV GP; PV; RABV; Site III; Glycoprotein; Rabies virus; strain Pasteur vaccins; Lyssavirus
UniProt Accession Number of Target Protein: P08667
Published Application(s): NTRL, WB, ELISA
Published Species Reactivity: Rabies Virus
Immunogen: The original antibody was generated from a heterohybridoma which was developed by fusing primary immune peripheral blood B-cells and a heteromyeloma cell line, K6H6/B5 and screening them against inactivated rabies virus antigen.
Specificity: This antibody recognizes and binds the antigenic site III of the rabies virus glycoprotein. However, it is not capable of binding the CVS-BHK strain of the rabies virus.
Application Notes: This antibody successfully binds and neutralizes the rabies virus glycoprotein of the PV, CVS-11, SAD and Flury LEP strains. It does not bind the CVS-BHK strain. The binding specificity of the antibody for rabies virus glycoprotein was confirmed with ELISA and western blotting. This antibody in combination with another murine anti-rabies antibody M5B4 was used in the preparation of a diabody D06 (PMID: 20573881).
Antibody First Published in: Nimmagadda et al. Recombinant Diabody-Based Immunocapture Enzyme-Linked Immunosorbent Assay for Quantification of Rabies Virus Glycoprotein. Clin Vaccine Immunol. (2010); 17(8): 1261–1268. PMID:20573881
Note on publication: Describes the generation of a diabody using R16E5 as a parent antibody.

Product Form

Size: 200 µg Purified antibody.
Purification: Protein A affinity purified
Supplied In: PBS with 0.02% Proclin 300.
Storage Recommendation: Store at 4ºC for up to 3 months. For longer storage, aliquot and store at -20ºC.
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.