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Zuschläge

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Anti-Envelop glycoprotein B [93k] Bulk Size Ab04132-23.0-BT

Isotype and Format: Rabbit IgG, Kappa

Clone Number: 93k

Alternative Name(s) of Target: gB; Varicella zoster virus; VZV; human herpesvirus 3; HHV-3; HHV3; Human alpha herpesvirus 3; Chickenpox; 93KA9

UniProt Accession Number of Target Protein: P09257

Published Application(s): IP, neutralize, WB

Published Species Reactivity: human herpesvirus 3 (HHV-3, HHV3), Varicella zoster virus (VZV)

Immunogen: The original hybridoma was generated using the trioma method of Ostberg et al. (1983), wherein an immunized human B cells from an adult sero-positive for VZV was fused with a xenogenic mouse-human cell that was produced by fusing the drug resistant mouse cell line SP-2 with normal human peripheral lymphocytes called the SPAZ-4 cell line. This hybridoma generated an antibody 93K that was capable of neutralizing VZV in absence of complement.

Specificity: This antibody targets the domain IV region of envelope glycoprotein B of the Varicella zoster virus (VZV) also known as the human herpesvirus 3 (HHV-3, HHV3) or Human alpha herpesvirus 3. This DNA virus from the herpes virus group can infect humans causing chickenpox in children and shingles (herpes zoster) in adults. Varicella is characterized by a maculopapular, vesicular rash that can be pruritic and evolves into dried crusts (scabs) over a 3- to 7-day period. Chicken pox is considered contagious beginning 1-2 days before rash onset until all lesions have crusted (scabbed).

Application Notes: This antibody is capable of detecting full length VZV glycoprotein B (gB) in a western blot. It was reported that this antibody could not bind to the gB R592A, I594A, or 589AAA594 mutants in western blots and binding was reduced but not abolished for the Q596A, N597A, or 596AA597 mutants (PMID: 32811830). This antibody is capable of neutralizing MRC-5 human primary fibroblast cells infected with K.McC. clinical strain of VZV virus (US5506132). It also reduced gB/gH-gL-mediated membrane fusion by 95% in the stable reporter fusion assay (SRFA) in the absence of other viral proteins (PMID: 32811830). This antibody was also used for the immunoprecipitation of gB β 23 mutants and gB/gH-gL fusion complex (PMID: 32811830).

Antibody First Published in: Oliver et al. A glycoprotein B-neutralizing antibody structure at 2.8 Å uncovers a critical domain for herpesvirus fusion initiation. Nat Commun. 2020; 11: 4141. [PMID:32811830](#)

Note on publication: This paper describes a 2.8 Å cryogenic-electron microscopy structure of native gB recovered from VZV-infected cells, in complex with a human monoclonal antibody, 93k.

Product Form

Size: 1 mg Purified antibody in bulk size.

Purification: Protein A affinity purified

Supplied In: PBS only.

Storage Recommendation: Store at 4°C for up to 3 months. Note, this antibody is provided without added preservatives, it is therefore recommended this antibody be handled under sterile conditions. 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.