

Anti-HCMV gB [5A6] Bulk Size Ab01475-15.0-BT

This antibody does not have a J-chain and therefore presents as a hexamer, rather than a pentamer.

This chimeric human antibody was made using the variable domain sequences of the original Mouse IgG2b format, for improved compatibility with existing reagents, assays and techniques.

Isotype and Format: Human IgM, Kappa

Clone Number: 5A6

Alternative Name(s) of Target: Human cytomegalovirus gB; gB; Envelope glycoprotein B; UL55; Human betaherpesvirus 5 gB; CMV gb

UniProt Accession Number of Target Protein: P06473

Published Application(s): IP, Neutralisation, FC, IF

Published Species Reactivity: Human cytomegalovirus (HCMV)

Immunogen: This antibody was raised by immunising BALB/c mice with the virus.

Specificity: This antibody recognises Human Cytomegalovirus envelope glycoprotein g (HCMV gB). Human Cytomegalovirus gB also known as Envelope glycoprotein B (gB) is a protein that plays a roll in host cell entry, cell to cell virus transmission and fusion of infected cells. It has been shown to interact with host integrin ITGB1, PDGFRA and EGFR that likely serve as postattachment entry receptors. The protein also participates in the fusion of viral and cellular membranes leading to virus entry into the host cell.

Application Notes: 5A6 antibody might be used in the neutralisation of Human cytomegalovirus as well as in its detection via various methods. For instance, it has been demonstrated that this antibody was capable of identifying HCMV via flow cytometry (Gardner et al., 2016). Furthermore, 5A6 might be utilised in the assessment of the infection level of cells contaminated with HCMV (Gardner et al., 2016) as well in the immunoprecipitation procedures (Gardner et al., 2016).

Antibody First Published in: Gardner et al. Functional screening for anti-CMV biologics identifies a broadly neutralizing epitope of an essential envelope protein. Nat Commun. 2016 Dec 14;7:13627. doi: 10.1038/ncomms13627. [PMID:27966523](#)

Note on publication: This article describes the characterisation of 5A6 antibody.

Product Form

Size: 500 µg Purified antibody in bulk size.

Purification:

Affinity Purified using a recombinant lectin column

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.