

Antibody Datasheet / Certificate of Analysis

Product Name:	Mouse anti-CMV Glycoprotein B
Clone number:	HCMV37
Isotype:	Mouse IgG2a
Product code:	MAB12120-200
Batch Number:	17080812
Immunogen:	Human cytomegalovirus extracts
Amount:	200ug
Concentration:	1mg/ml
Buffer:	Phosphate Buffered Saline pH7.4
Preservative:	0.02% Proclin 300.
Purification:	Antibody was purified from hybridoma cell culture supernatant by affinity chromatography on Protein A
Specificity:	Recognises a neutralising epitope on human cytomegalovirus glycoprotein B
Applications:	ELISA Neutralisation Immunohistology – frozen sections



Antigen background: Human cytomegalovirus (HCMV) is a species of the Cytomegalovirus genus of viruses, which in turn is a member of the viral family known as Herpesviridae or herpesviruses. Infection with CMV is very common, with estimates suggesting that 50-80% of the population in the UK have been infected at some point with CMV. Most cases of CMV infection are asymptomatic, but it can cause illness with symptoms similar to that of Flu or glandular fever.

A significant problem associated with CMV infection results from infection of a pregnant woman, who may then pass the virus on to her newborn child, leading to congenital CMV. A child with CMV infection may experience learning difficulties, and deafness.

Cytomegalovirus glycoprotein B is an important envelope protein of HCMV, acting as a receptor for entry of the virus into fibroblasts. This protein has been the target of vaccines designed to prevent HCMV infection by preventing entry into host cells. However, the HCMV pentameric complex also acts as a receptor for host-cell entry into epithelial and endothelial cells, and vaccine results using gB alone have only shown partial success

References: [Tempest, P.R et al \(1995\)](#) Identification of framework residues required to restore antigen binding during reshaping of a monoclonal antibody against the glycoprotein gB of human cytomegalovirus. Int. J. Biol. Macromol. 17:37-42

Storage: Store at +4⁰C for up to three months, or at -20⁰C for longer periods
The antibody is shipped at ambient temperature.
Avoid repeated freeze/thaw cycles.