

# Cytomegalovirus (8B1.2, 1G5.2 & 2D4.2)

Format	Catalog No.	Pack size	Dilution
Concentrated	G2102 A, B, C	0.1, 0.5, 1.0 mL	1:100 - 200
Prediluted	G2102 AA, BB	6.0, 3.0 mL	Ready to use

#### **ANTIBODY SPECIFICATIONS**

• HOST SPECIES: Mouse

CLONE: 8B1.2, 1G5.2 & 2D4.2

ISOTYPE: IgG2a

CELLULAR LOCALIZATION: Nuclear

IMMUNOGEN: Purified human CMV antigen.

MOLECULAR WEIGHT: ~ kDa

• SPECIES REACTIVITY: Human; other species not tested.

• POSITIVE CONTROLS: CMV Infected Tissue

#### **INTENDED USE**

This antibody is intended **for research use only (RUO)** and is not approved for diagnostic or therapeutic applications. It is optimized for the detection of Cytomegalovirus protein in formalin-fixed, paraffin-embedded (FFPE) human tissues by immunohistochemistry (IHC).

#### **SUMMARY AND APPLICATION**

The Cytomegalovirus (CMV) antibodies 8B1.2, 1G5.2, and 2D4.2 are monoclonal antibodies, not proteins, and therefore don't have a molecular weight in the same way that a protein does. They are designed to bind to specific antigens on the CMV virus. The 8B1.2 clone, for example, has a calculated molecular weight of 62.87 kDa. The blend of these three clones, also known as MMab, is used for detecting CMV in various assays like immunofluorescence (IF) and immunohistochemistry (IHC).

## **SCIENTIFIC BACKGROUND**

Cytomegalovirus (CMV) is a virus of the Herpes-virus group; in humans it is commonly known as HCMV or Human Herpesvirus 5 (HHV-5). CMV belongs to the Betaherpesvirinae subfamily of Herpesviridae, which also includes Roseolovirus.

### **RECOMMENDED USAGE**

• IHC Protocol Highlights:

o Dilution: 1–2 μg/mL

o Incubation: 30 minutes at room temperature

 Antigen Retrieval: Heat in 10 mM Tris with 1 mM EDTA (pH 9.0) at 95°C for 45 minutes, followed by cooling

• Specimen Type: FFPE sections, preferably ~4 μm

### **FORMULATION & STORAGE:**





Buffer: 10 mM PBS, 0.05% BSA, 0.05% sodium azide

Storage:

o Dilution: 1–2 μg/Ml

o Without azide: -20 to -80°C

• Shelf Life: 24 months under proper conditions

• Hazard Classification: Non-hazardous; no MSDS required

# **LIMITATIONS**

- Interpretation must be made by a qualified pathologist
- Tissue fixation and handling may affect staining quality
- Negative results do not always indicate absence of antigen—consider panel testing

### **PRECAUTIONS**

- Contains 0.05% sodium azide avoid ingestion and contact with skin or mucosa
- Wear gloves and avoid contact with eyes or mucosa
- Do not use reagents past expiration or if packaging appears compromised
- Do not pipette by mouth or reuse slides/containers without proper sterilization

### **TECHNICAL SUPPORT**

For technical assistance, please contact Genebio Solution's Technical Support at www.genebiosolution.com