

## Mouse anti-Virus HIV-1 p24 Monoclonal Antibody | anti-HIV-1 antibody

HIV-1 p24 Antibody [2C2C12]

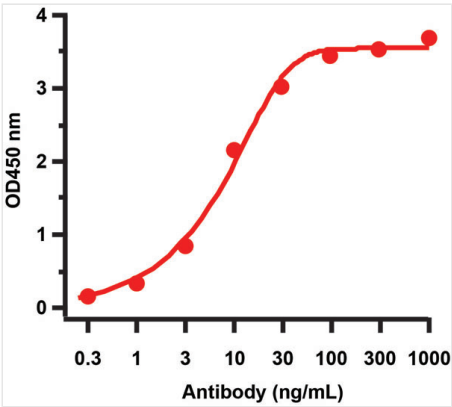
| CATALOG # | HOST  | REACTIVITY | APPLICATIONS        |
|-----------|-------|------------|---------------------|
| AAA40998  | Mouse | Virus      | Western Blot, ELISA |

### PRODUCT SYNONYMS

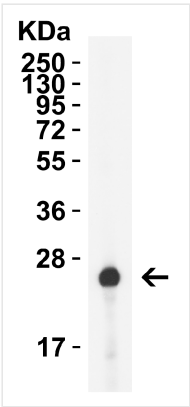
HIV-1 p24; Monoclonal Antibody; HIV-1 p24 Antibody [2C2C12]; Anti-HIV-1 p24 antibody; Pr55Gag; Gag polyprotein; Capsid protein p24; gag Pr55(Gag); anti-HIV-1 antibody

### PRODUCT SPECIFICATIONS

|                                                 |                                                                                                                                                                                                                                                                            |
|-------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                            | Mouse                                                                                                                                                                                                                                                                      |
| Reactivity                                      | Virus                                                                                                                                                                                                                                                                      |
| Clonality                                       | Monoclonal                                                                                                                                                                                                                                                                 |
| Isotype                                         | IgG1                                                                                                                                                                                                                                                                       |
| Clone Number                                    | 2C2C12                                                                                                                                                                                                                                                                     |
| Purity/Purification                             | Anti-HIV-1 p24 antibody is immunoaffinity chromatography purified IgG.                                                                                                                                                                                                     |
| Form/Format                                     | Liquid; HIV-1 p24 Monoclonal Antibody is supplied in PBS containing 0.02% sodium azide.                                                                                                                                                                                    |
| Concentration                                   | 1mg/mL (varies by lot)                                                                                                                                                                                                                                                     |
| Applicable Applications for anti-HIV-1 antibody | WB (Western Blot), ELISA                                                                                                                                                                                                                                                   |
| Immunogen                                       | Mouse monoclonal HIV-1 p24 antibody was raised against a recombinant full-length HIV-1 p24 protein.                                                                                                                                                                        |
| Research Area                                   | Infectious Disease                                                                                                                                                                                                                                                         |
| NCBI Organism                                   | hiv-1                                                                                                                                                                                                                                                                      |
| Preparation and Storage                         | HIV-1 p24 Monoclonal Antibody can be stored at 4 degree C for three months and -20 degree C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures. |



**ELISA**  
Figure 2 ELISA Validation of HIV-1 p24 Antibody with HIV-1 p24 Protein Coating Antigen: HIV-1 p24 recombinant protein, 1ug/mL, incubated at 4 degree C overnight. Detection Antibodies: HIV-1 p24 antibody, AAA40998, dilution: 0.3-1000 ng/mL, incubated at RT for 1 hr. Secondary Antibodies: Goat anti-mouse HRP at 1:5,000, incubated at RT for 1 hr.



**WB (Western Blot)**  
Figure 1 Western Blot Validation with HIV-1 p24 Protein Loading: 30 ng HIV-1 p24 recombinant protein. Antibodies: HIV-1 p24, AAA40998, 0.5ug/mL, 1h incubation at RT in 5% NFDm/TBST. Secondary: Goat anti-mouse IgG HRP conjugate at 1:5,000 dilution.

ADDITIONAL INFORMATION

|                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-HIV-1 antibody | HIV-1 p24 Monoclonal Antibody: The human immunodeficiency virus type 1 (HIV-1) particle consists of an envelope, a core, and the region between the two termed matrix (1). The HIV-1 Gag protein is a late structural protein that contains four proteins: matrix (p17), capsid (p24), nucleocapsid (p7) and the p6 protein (2). The p24 constitutes the major core component of the virus and shows high degree of sequence conservation among HIV isolates. The Gag p24 protein has been used as an integral part of multicomponent HIV-1 vaccines (3). |
| Product Categories/Family for anti-HIV-1 antibody   | Primary Antibodies,Antibody Pairs                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| References                                          | Goto et al. Micron 1998; 29:123-38.<br>Freed EO. Virology 1998; 251:1-15.<br>Freed EO. Virology 1998; 251:1-15.                                                                                                                                                                                                                                                                                                                                                                                                                                           |

NCBI AND UNIPROT INFORMATION

|                            |                                                     |
|----------------------------|-----------------------------------------------------|
| NCBI GI #                  | 327745                                              |
| NCBI GeneID                | 155030                                              |
| UniProt Accession #        | P04591; Q77YG1                                      |
| Molecular Weight           | Predicted: 24; 41; 55 kDa                           |
| NCBI Official Full Name    | gag polyprotein                                     |
| NCBI Official Symbol       | gag                                                 |
| NCBI Protein Information   | Pr55(Gag); matrix; capsid; nucleocapsid; p2; p6; p1 |
| UniProt Protein Name       | Gag polyprotein                                     |
| UniProt Gene Name          | gag                                                 |
| UniProt Synonym Gene Names | MA; CA; NC                                          |
| UniProt Entry Name         | GAG_HV1H2                                           |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.