**Product datasheet**

**Anti-HIV1 p24 antibody [39/5.4A] ab9071**

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**Overview**

**Product name**  Anti-HIV1 p24 antibody [39/5.4A]

**Description**  Mouse monoclonal [39/5.4A] to HIV1 p24

**Host species**  Mouse

**Specificity**  Human Immunodeficiency Virus Type 1 (HIV 1) p24 protein. No detectable reaction has been observed with HIV-2 or SIV (Simian Immunodeficiency Virus) viral lysates by ELISA or Western blot.

**Tested applications**  Suitable for: WB, Radioimmunoprecipitation, ELISA, ICC/IF, Sandwich ELISA

**Immunogen**  Tissue, cells or virus corresponding to HIV1 p24. ab9071 raised by immunizing BALB/c mice with purified HIV-1 (Strain IIIb) lysate.

**General notes**  ab9071 is used to detect HIV-1 core protein in virus infected cells, cell lysates, culture fluid, serum or plasma.

**Properties**

**Form**  Liquid

**Storage instructions**  Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.

**Storage buffer**  Constituent: PBS

**Purity**  Protein G purified

**Purification notes**  Purified from serum-free culture supernatant.

**Primary antibody notes**  The antibody is used to detect HIV 1 core protein in virus infected cells as well as in viral or infected cell lysates. Studies on core antigen synthesis and metabolism can be performed using Western blotting or radioimmunoprecipitation analysis. Useful as solid phase for capture of p24 in an antigen ELISA format.

**Clonality**  Monoclonal

**Clone number**  39/5.4A

**Isotype**  IgG1

**Applications**

Our Abpromise guarantee covers the use of ab9071 in the following tested applications.
Relevance

HIV1 performs highly complex orchestrated tasks during the assembly, budding, maturation and infection stages of the viral replication cycle. During viral assembly, the proteins form membrane associations and self-associations that ultimately result in budding of an immature virion from the infected cell. Gag precursors also function during viral assembly to selectively bind and package two plus strands of genomic RNA. Capsid protein p24 probably forms the conical core of the virus that encapsulates the genomic RNA-nucleocapsid complex.

Cellular localization

Membrane

Images

Immunoblot analysis of viral proteins in HEK293-derived cells transiently transfected with the proviral plasmid, pNL4-3. EV or POM121C (614–987) cells were transfected with 1.0 µg of pNL4-3. The cells were harvested 48 h post-transfection and lysates were subjected to immunoblot analyses with anti-HIV-1 p24 (top panel; the upper arrow indicated precursor Gag [PrGag], the lower arrow indicated CA), anti-HA (middle panel) and anti-CYP (bottom panel). One representative set of results from three independent experiments is shown.

Whole-cell lysates were prepared as follows: cells were washed twice with phosphate-buffered saline (PBS) (-), suspended in PBS(-) (500 µl per 1 × 10^7 cells) and mixed with an equal volume of 2× sample buffer (4% sodium dodecyl sulfate, 125 mM Tris-Cl, pH 6.8, 10% 2-mercaptoethanol, 10% glycerol, and 0.002% bromphenol blue). Proteins were solubilized by heating for 5 min at...
95°C. Samples were subjected to SDS-PAGE, transferred to PVDF membranes, and reacted with mouse monoclonal antibody to HIV-1 p24 (#ab9071, Abcam, Inc., Cambridge, MA), or rabbit polyclonal antibody to CYP A (#BML-SA296, Enzo Life Sciences, Inc., Farmingdale, NY). Membranes were then incubated with horseradish peroxidase-conjugated secondary antibody (#NA934 for anti-rabbit IgG, #NA931 for ant-mouse IgG, #NA933 for anti-human IgG, Amersham Biosciences, Piscataway, NJ), and proteins were visualized by Western Lightning Plus-ECL (PerkinElmer, Waltham, MA) or enhanced chemiluminescence (Pierce Biotechnology, Rockford, IL).

All lanes : Anti-HIV1 p24 antibody [39/5.4A] (ab9071) at 1/2000 dilution

Lane 1 : Mock transfected 293T cells - cell lysate
Lane 2 : 293T cells transfected with HIV DNA - cell lysate

Secondary
All lanes : HRP conjugated goat anti-mouse IgG

Developed using the ECL technique.

Performed under reducing conditions.

Observed band size: 24,25,41,55 kDa

why is the actual band size different from the predicted?

Exposure time: 5 minutes

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