**Product datasheet**

**Anti-HIV1 gp41 antibody [10E9] ab9065**

1 References

**Overview**

- **Product name**: Anti-HIV gp41 antibody [10E9]
- **Description**: Mouse monoclonal [10E9] to HIV gp41
- **Host species**: Mouse
- **Specificity**: Reacts with Human Immunodeficiency Virus Type 1(HIV 1) gp41 envelope transmembrane protein. Also exhibits strong reactivity with HIV 1 env gene precursor gp160 using Western blotting.
- **Tested applications**: Suitable for: WB, Radioimmunoprecipitation, ELISA, ICC/IF
- **Immunogen**: Whole HfV viral lysate (B-3 strain). The epitope has not been mapped.

**Properties**

- **Form**: Liquid
- **Storage instructions**: Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
- **Purity**: Protein A purified
- **Purification notes**: Purified from serum-free culture supernatant.
- **Clonality**: Monoclonal
- **Clone number**: 10E9
- **Isotype**: IgG1

**Applications**

Our Abpromise guarantee covers the use of ab9065 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

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Application notes

ELISA: Use at an assay dependent dilution.
ICC/IF: Use at a concentration of 1 - 10 mg/ml.
RipA: Use at an assay dependent dilution.
WB: Use at a concentration of 1 - 10 µg/ml.

Antibody dilutions should be prepared using buffers containing suitable protein in order to stabilize antibody activity.

Not yet tested in other applications.
Optimal dilutions/concentrations should be determined by the end user.

Target

Relevance

gp41/120 is the major HIV protein associated with the HIV envelope. It functions as the viral antireceptor or attachment protein. gp41 (or TM) traverses the envelope, whereas gp120 is present on the outer surface and is noncovalently attached to gp41. The precursor of gp120/41 (gp160) is synthesized in the endoplasmic reticulum and is transported via the golgi body to the cell surface. Upon activation of the envelope glycoprotein (gp120/41) by cellular receptors, gp41 undergoes conformational changes that mediate fusion of the viral and cellular membranes.

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