

# Mouse Anti-Herpes Simplex Virus Type 2 Glycoprotein D MAb

Mouse, Monoclonal (HSV-2 gD)

Cat. No. DMAB3604

Lot. No. (See product label)

## PRODUCT INFORMATION

**Antigen Description:** Glycoprotein D(gD) binds specifically to the herpesvirus entry mediator receptor (HVEM), thus providing a strong, fixed attachment to the host cell. These interactions bring the membrane surfaces into mutual proximity and allow for other surface glycoproteins to interact.

**Product Overview:** Monoclonal Antibody to Herpes Simplex Virus-2 (HSV-2), glycoprotein D (gD)

**Specificity:** HSV2, specific for gD.

**Clone:** A911

**Isotype:** IgG1

**Source:** Ascites

**Immunogen:** Purified HSV-2 virions

**Host animal:** Mouse

**Format:** FITC, Liquid

**Applications:** Suitable for use in Western blot, ELISA and direct FA staining of target antigen in a permissive tissue culture system. Each laboratory should determine an optimum working titer for use in its particular application. Acetone fixation of the antigen source is recommended prior to staining. Other applications have not been tested but use in such assays should not necessarily be excluded.

**Purification:** Conjugated with high purity isomer I of fluorescein isothiocyanate. Care is taken to ensure complete removal of any free fluorescein from the final product.

**Affinity Constant:** Not determined

## REFERENCES

1. Peretti, S., et al., (2005), "Immunomodulatory effects of HSV-2 infection of immature macaque dendritic cells modify innate and adaptive responses", *Blood*, 106(4): 1305-1313
2. Jones, C.A., et al., (2003), "Herpes Simplex Virus Type 2 Induces Rapid Cell Death and Functional Impairment of Murine Dendritic Cells In Vitro", *Journal of Virology*, 77(20): 11139-11149

## BACKGROUND

**Introduction:** Herpes simplex type 2 (HSV2) belongs to a family that includes HSV1, Epstein-Barr virus (EBV) and Varicella zoster (chicken pox) virus. HSV1 and HSV2 are extremely difficult to distinguish from each other. These viruses have a DNA genome, an icosahedral protein coat and are encased in a lipid membrane derived from the nuclear membrane of the last host. These viruses are capable of entering a latent phase where the host shows no visible sign of infection and levels of infectious agent become very low. During the latent phase the viral DNA is integrated into the genome of the host cell.

**Keywords:** Herpesviridae; Alphaherpesvirinae; Simplexvirus; Herpes simplex virus 2; HSV 2; Herpes Simplex Virus Type 2; HSV-2; Glycoprotein D precursor; Herpes Simplex Virus Type 2 Glycoprotein D; HHV2gp69; Herpesvirus 2; US6; Virion glycoprotein D; HSV-2 gD

## PACKAGING

**Concentration:** 100ug/ml (OD280nm, E0.1% = 1.3)

**Buffer:** 0.01M PBS, pH 7.2 containing 10mg/ml BSA

**Preservative:** 0.1% Sodium azide

**Storage:** Upon receipt, aliquot and store at -20°C. Avoid multiple freeze/thaw cycles.

**Warning:** This product contains sodium azide, which has been classified as Xn (Harmful), in European Directive 67/548/EEC in the concentration range of 0.1–1.0%. When disposing of this reagent through lead or copper plumbing, flush with copious volumes of water to prevent azide build-up in drains.

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