

**Hybridoma 6D2.6 Anti-Human
Immunodeficiency Virus Type 2 (HIV-2)
Viral Protein X (Vpx)**

Catalog No. HRP-2739

For research use only. Not for use in humans.

Contributor:

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Manufacturer:

BEI Resources

Product Description:

HRP-2739 is a murine hybridoma cell line generated by the fusion of P3x63Ag8.653 myeloma cells with splenocytes derived from BALB/c mice immunized with a synthetic peptide comprising the full-length (112 aa) HIV-2ST Vpx protein.

Material Provided:

Each vial contains approximately 1.0 mL of cell culture suspension frozen in 90% fetal bovine serum and 10% dimethyl sulfoxide (DMSO).

Packaging/Storage:

HRP-2739 was packaged aseptically, in plastic cryovials. It should be stored at -100°C or colder, preferably in the vapor phase of a liquid nitrogen freezer. Storage at -70°C will result in loss of viability. To ensure the highest level of viability, the vial should be thawed, and the culture initiated as soon as possible upon receipt. Any product warming during shipping and transfer must be avoided, as this will adversely affect the product's viability after thawing. For the transfer between freezers and shipping, the cells may be placed on dry ice for brief periods, although the use of a portable liquid nitrogen carrier is preferred. Please read the following recommendations before thawing this material.

Functional Activity:

HRP-2739 produces IgG2a monoclonal antibody recognizing Vpx from HIV-2/ST, HIV-2/ROD, and SIV/PBj in Western blot and immunofluorescent assays.¹

Safety Precautions:

When handling frozen vials, it is highly recommended that protective gloves, lab coat and a full-face mask be worn. Even brief exposure to the ultra-cold temperature can cause tissue damage from frostbite. Also, some vials may slowly fill with liquid nitrogen if they have been immersed during cryogenic storage. When thawing, the liquid nitrogen may rapidly expand as it changes to gas, breaking the vial or cap with explosive force and sending debris flying with enough velocity to cause injury. Store and use in areas with adequate ventilation.

Subcultivation Procedure:

Prior to thawing the hybridoma cells, prepare cell culture medium according to Appendix I. Thaw one vial in a 37°C water bath and transfer the contents into a 25 cm cell culture flask with 10 mL of cell culture medium. Keep the flask loosely capped in a 37°C incubator with 5% CO₂. Change media at 12-16 hours post-seeding. Feed cells at least every 48 hours and split cells when 70% confluent.

Citation:

Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH: Hybridoma 6D2.6 Anti-Human Immunodeficiency Virus Type 2 (HIV-2) Viral Protein X (Vpx).

Biosafety Level: 1

Appropriate safety procedures should always be used with this material. Laboratory safety is discussed in the following publication: U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control and Prevention, and National Institutes of Health. [Biosafety in Microbiological and Biomedical Laboratories \(BMBL\)](#), 6th ed. Washington, DC: U.S. Government Printing Office, 2020.

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References:

1. Kappes, J. C., et al. "Intracellular Transport and Virion Incorporation of Vpx Requires Interaction with Other Virus Type-Specific Components." *Virology* 193 (1993): 222-233. PubMed: 8438567.

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APPENDIX I: MEDIA PREPARATION

Cell Culture Medium

DMEM supplemented with:

Fetal Bovine Serum (FBS, hybridoma-tested; 10%)
Gentamicin (optional; 50 µg/mL)

Freezing Medium

Cell culture medium (as above)
10% DMSO

Freeze at 10⁷ cells/mL