





Product Sheet

Mouse hybridoma MAb 951-5-1 (P450 1A2) (HB-12684)

Please read this FIRST

	Storage Temp. liquid nitrogen vapor phase
	Biosafety Level 1

Intended Use

This product is intended for research use only. It is not intended for any animal or human therapeutic or diagnostic use.

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U.S. Patent Number:
6,335,428

Technical Information

ATCC Technical Services does not have technical information on patent deposits that are not produced or characterized by ATCC. Additional information can be found on the international or [U.S. patent office](#) websites.

Product Description

Designation: Mouse hybridoma MAb 951-5-1 (P450 1A2)
Organism: *Mus musculus* (B cell); *Mus musculus* (myeloma), mouse (B cell); mouse (myeloma)
Strain:
Strain: BALB/c (B cell); ? (myeloma)
Tissue: B lymphocyte; hybridoma
Isotype: IgG1 kappa
Cell Type: hybridoma.lymphoblast B lymphocyte
Morphology: lymphoblast
Growth Properties: suspension

Batch-Specific Information

Refer to the Certificate of Analysis for batch-specific test results.

SAFETY PRECAUTION

ATCC highly recommends that protective gloves and clothing always be used and a full face mask always be worn when handling frozen vials. It is important to note that some vials leak when submersed in liquid nitrogen and will slowly fill with liquid nitrogen. Upon thawing, the conversion of the liquid nitrogen back to its gas phase may result in the vessel exploding or blowing off its cap with dangerous force creating flying debris.

Unpacking & Storage Instructions

1. Check all containers for leakage or breakage.
2. Remove the frozen cells from the dry ice packaging and immediately place the cells at a temperature below -130°C, preferably in liquid nitrogen vapor, until ready for use.

Handling Procedure for Frozen Cells

Handling Procedure for Frozen Cells

To insure the highest level of viability, thaw the vial and initiate the culture as soon as possible upon receipt. If upon arrival, continued storage of the frozen culture is necessary, it should be stored in liquid nitrogen vapor phase and not at -70°C. Storage at -70°C will result in loss of viability.

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1. Thaw the vial by gentle agitation in a 37°C water bath. To reduce the possibility of contamination, keep the O-ring and cap out of the water. Thawing should be rapid (approximately 2 minutes).
2. Remove the vial from the water bath as soon as the contents are thawed, and decontaminate by dipping in or spraying with 70% ethanol. All of the operations from this point on should be carried out under strict aseptic conditions.

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- Transfer the vial contents to an appropriate size vessel. It is important to avoid excessive alkalinity of the medium during recovery of the cells. It is suggested that, prior to the addition of the vial contents, the culture vessel containing the growth medium be placed into the incubator for at least 15 minutes to allow the medium to reach its normal pH (7.0 to 7.6).
- Incubate the culture at 37°C in a suitable incubator. A 5% CO₂ in air atmosphere is recommended if using the medium described on this product sheet. It is not necessary to remove the cryoprotective agent. If it is desired that the cryoprotective agent be removed immediately, or that a more concentrated cell suspension be obtained, centrifuge the cell suspension at approximately 125 xg for 5 to 10 minutes. Discard the supernatant and resuspend the cells with fresh growth medium at the dilution ratio recommended in the specific batch information.



Handling Procedure for Flask Cultures

Handling Procedure for Flask Cultures

The flask was seeded with cells (see specific batch information), grown, and completely filled with medium at ATCC to prevent loss of cells during shipping.

- Upon receipt visually examine the culture for macroscopic evidence of any microbial contamination. Using an inverted microscope (preferably equipped with phase-contrast optics), carefully check for any evidence of microbial contamination
- Incubate the flask in an upright position for several hours at 37°C. After the temperature has equilibrated, aseptically remove the entire contents of the flask and centrifuge at 125 xg for 5 to 10 minutes. Remove shipping medium and save for reuse. Resuspend the cell pellet in 10 mL of this medium.
- From this cell suspension remove a sample for a cell count and viability. Adjust the cell density of the suspension to 2-5 x 10⁵ viable cells/mL in the shipping medium.
- Incubate the culture, horizontally, at 37°C in a 5% CO₂ in air atmosphere. Maintain the cell density of the culture as suggested under the subculture procedure.



Subculturing Procedure

Protocol: Cultures can be maintained by the addition of fresh medium or replacement of medium.

Alternatively, cultures can be established by centrifugation with subsequent resuspension at 1 X 10⁵ viable cells/ml. Maintain cell density between 1 X 10⁵ and 1 X 10⁶ viable cells/ml.

Interval: Maintain cell density between 1 X 10⁵ and 1 X 10⁶ viable cells/ml.

Medium Renewal: Two to three times weekly



Cryopreservation Medium

Cryoprotectant Medium

Complete culture medium described above supplemented with 5% (v/v) DMSO.

Cell culture tested DMSO is available as ATCC Catalog No. 4-X.



Comments

Animals were immunized with baculovirus-expressed human cytochrome P450 1A2 [U.S. Pat. 6,335,428]. Spleen cells were fused ? MAb 26-7-5 (ATCC HB-12681), MAb 951-5-1 (ATCC HB-12684) and MAb 1812-4-8 (ATCC HB-12683) specifically bind to human cytochrome P450 1A2. They inhibit 1A2 enzyme activity [U.S. Pat. 6,335,428]. None of the three MAbs cross-react with human cytochromes 1A1, 2A6, 2B6, 2C8, 2C9, 2C18, 2C19, 2D6, 2E1, 3A4, and 3A5 as measured by ELISA and immunoblotting procedures. The antibodies exhibit strong immunoblotting to 1A2 [U.S. Pat. 6,335,428]. The antibodies can be used for screening drugs for metabolism by cytochrome P450 1A6, and in methods of measuring p450 1A2 levels in individuals relative to p450 1A2 levels in a control population [U.S. Pat. 6,335,428].



Propagation

Complete Growth Medium

RPMI 1640 medium with 2 mM L-glutamine adjusted to contain 1.5 g/L sodium bicarbonate, 4.5 g/L glucose, 10 mM HEPES, 1.0 mM sodium pyruvate and supplemented with 5% Origen Hybridoma Cloning Factor and 15% fetal bovine serum



References

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Storage Temp.
**liquid nitrogen
vapor phase**



Biosafety Level
1

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References and other information relating to this product are available online at www.atcc.org.



Biosafety Level: 1

Appropriate safety procedures should always be used with this material. Laboratory safety is discussed in the current publication of the *Biosafety in Microbiological and Biomedical Laboratories* from the U.S. Department of Health and Human Services Centers for Disease Control and Prevention and National Institutes for Health.

ATCC Warranty

Patent Deposits not produced or characterized by ATCC are warranted for viability only. If you believe the culture you have received is nonviable, contact Technical Services by phone at 800-638-6597 or 703-365-2700 or by e-mail at tech@atcc.org. Or you may contact your local distributor.

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