

Mouse Anti-Bovine IgM Hybridoma

Cat. No. CSC-H0180 Lot. No. (See product label)

SPECIFICATION

Species Bovine

Cell Line Description The antibody is directed against bovine IgM. It detects serum IgM and also IgM+ B cells. It does not react with bovine IgG.

Introduction

IgM normally constitutes about 10% of serum immunoglobulins. IgM antibody is prominent in early immune responses to most antigens and predominates in certain antibody responses such as natural blood group antibodies. IgM (with IgD) is the major immunoglobulin expressed on the surface of B cells. The gene for the mu constant region contains four domains separated by short intervening sequences. Class specific anti immunoglobulin antibodies are useful for: The characterization of malignant B cell proliferations. All but acute lymphocytic leukemias share either surface or intra cytoplasmic Ig with an isotypic restriction, which suggest the monoclonal nature of the cell population. Most of the chronic lymphocytic leukemias, non Hodgkin lymphomas and Burkitts lymphoma bear surface IgM, whereas plasmocytes from Waldenstr?ms disease bear intracytoplasmic IgM. The other isotypes are less frequently found. On the other hand multiple myelomas are usually of the IgG or IgA type. Characterization of plasma cells in inflammatory conditions: Plasma cell typing can be of use for the classification of intestinal inflammatory conditions such as inflammatory bowel disease and allergic conditions. In the latter a specific increase in the number of IgE plasma cells can be demonstrated.

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Immunogen	Bovine pbms, depleted of T lymphocytes
Immunological Donor	BALB/c mouse spleen
Fusion Species	Mouse X Mouse Hybridoma
Myeloma	P3x63Ag8.653
Growth properties	Suspension
Propagation	Complete growth medium: RPMI 1640 + 2mM glutamine + 10% Foetal Bovine Serum (FBS) Atmosphere: air, 95%; carbon dioxide (CO ₂), 5% Temperature: 37.0 °C
Subculturing	Maintain cultures between 3-9x10 ⁵ cells/ml; 5% CO ₂ ; 37 °C. These cells may require mouse macrophage feeder cells upon resuscitation.
Mycoplasma	Mycoplasma Status: Negative (MycoAlert Kit)
Reactivity	Anti-IgM (monomorphic epitope), bovine
Isotype	IgG1
Application	Evaluation of bovine immunoglobulin levels and lymphocyte populations
Storage	Liquid nitrogen
Safety Considerations	The following safety precautions should be observed.1. Use pipette aids to prevent ingestion and keep aerosols down to a minimum.2. No eating, drinking or smoking while handling the hybridoma.3. Wash hands after handling the stable line and before leaving the lab.4. Decontaminate work surface with disinfectant or 70% ethanol

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before and after working with hybridoma.5. All waste should be considered hazardous.6. Dispose of all liquid waste after each experiment and treat with bleach.

Ship

Dry ice

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