Mouse Anti-Bovine CD4 Hybridoma

Cat. No. CSC-H0173 **Lot. No.** (See product label)

SPECIFICATION

Product Overview	
Species	Bovine
Background	CD4 (cluster of differentiation 4) is a glycoprotein expressed on the surface of T helper cells, regulatory T cells, monocytes, macrophages, and dendritic cells. It was discovered in the late 1970s and was originally known as leu-3 and T4 (after the OKT4 monoclonal antibody that reacted with it) before being named CD4 in 1984. In humans, the CD4 protein is encoded by the CD4 gene.
Cell Line Description	The antibody is directed against B°CD4 antigen, the bovine equivalent of human CD4 found on helper/inducer T cells.
Depositor	Dr J Naessens, ILRAD, Nairobi, Kenya
Immunogen	Bovine alloreactive lymphocytes
Immunological Donor	BALB/c mouse spleen
Fusion Species	Mouse X Mouse Hybridoma
Myeloma	P3x63Ag8
Growth properties	Suspension

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Propagation	Complete growth medium: RPMI 1640 + 2mM glutamine + 10% Foetal Bovine Serum (FBS) Atmosphere: air, 95%; carbon dioxide (CO2), 5% Temperature: 37.0 °C
Subculturing	Maintain cultures between 3-9x10^5 cells/ml; 5% CO2; 37 °C.
Mycoplasma	Mycoplasma Status: Negative (MycoAlert Kit)
Reactivity	Anti-CD4, bovine
Isotype	IgG2a
Target	CD4
Application	Enumeration of bovine 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 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

GENE INFORMATION

Gene Name	CD4 CD4 molecule [Bos taurus]
Official Symbol	CD4

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Synonyms	T-cell surface glycoprotein CD4; CD4 antigen; CD4
Gene ID	407098
mRNA Refseq	NM_001103225
Protein Refseq	NP_001096695
Chromosome Location	5
Pathway	Antigen processing and presentation; Cell adhesion molecules (CAMs); Cytokines and Inflammatory Response (Bi°Carta); Hematopoietic cell lineage; Primary immunodeficiency; T cell receptor signaling pathway

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