



Mouse anti-Bovine CD8 beta Monoclonal antibody [clone DD69], R-PE-Conjugated (DCABY-246)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description	The CD8 antigen is a cell surface glycoprotein found on most cytotoxic T lymphocytes that mediates efficient cell-cell interactions within the immune system. The CD8 antigen, acting as a coreceptor, and the T-cell receptor on the T lymphocyte recognize antigens displayed by an antigen presenting cell (APC) in the context of class I MHC molecules. The functional coreceptor is either a homodimer composed of two alpha chains, or a heterodimer composed of one alpha and one beta chain. Both alpha and beta chains share significant homology to immunoglobulin variable light chains. This gene encodes the CD8 beta chain isoforms. Multiple alternatively spliced transcript variants encoding distinct membrane associated or secreted isoforms have been described. A pseudogene, also located on chromosome 2, has been identified.
Specificity	This antibody recognises the bovine CD8 cell surface antigen, binding to an epitope expressed only on CD8b positive cells.
Isotype	IgG1
Source/Host	Mouse
Species Reactivity	Bovine
Clone	DD69
Conjugate	PE
Applications	Flow Cytometry
Preparation	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant

Reconstitution	Reconstitute with 1 ml distilled water
Format	Purified IgG conjugated to R. Phycoerythrin (RPE) - lyophilised
Size	100 tests
Buffer	Phosphate buffered saline
Preservative	0.09% Sodium Azide
Storage	Prior to reconstitution store at +4°C. Following reconstitution store at +4°C.DD NOT FREEZE.This product should be stored undiluted. This product is photosensitive and should be protected from light. Should this product contain a precipitate we recommend microcentrifugation before use.

GENE INFORMATION

Gene Name	CD8B CD8b molecule [Bos taurus (cattle)]
Official Symbol	CD8B
Synonyms	CD8B; CD8b molecule; T-cell surface glycoprotein CD8 beta chain; CD8b antigen
Entrez Gene ID	508633
Protein Refseq	NP_001098814
UniProt ID	A7YW30
Chromosome Location	chromosome: 11
Pathway	Adaptive Immune System; Antigen processing and presentation; Cell adhesion molecules (CAMs); Costimulation by the CD28 family; Cytokines and Inflammatory Response (BioCarta); Downstream TCR signaling; Generation of second messenger molecules; Hematopoietic cell lineage; Immune System; PD-1 signaling; Phosphorylation of CD3 and TCR zeta chains; Primary immunodeficiency; T Cell Receptor Signaling Pathway; T cell receptor signaling pathway; TCR signaling; Translocation of ZAP-70 to Immunological sy
References	<ol style="list-style-type: none"> 1. Suraud, V. et al. (2008) Acute infection by conjunctival route with Brucella melitensis induces IgG+ cells and IFN-gamma producing cells in peripheral and mucosal lymph nodes in sheep.Microbes Infect. 10: 1370-8. 2. Howard, C.J. and Naessens, J. (1993) Summary of workshop findings for cattle.Vet. Immunol. Immunopathol. 39: 25-48. 3. Naessens, J. et al. (1997) Nomenclature and characterization of leukocyte differentiation antigens in ruminants.Immunology Today 18(8): 365-368. 4. Hein, W. R. et al. (1991) Summary of workshop findings for leukocyte antigens of sheep. Vet.

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