



Anti-TCR Gamma/Delta monoclonal antibody, clone HM4 [R-PE] (DCABY-206)

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

PRODUCT INFORMATION

Antigen Description	The T cell receptor or TCR is a molecule found on the surface of T lymphocytes (or T cells) that is responsible for recognizing antigens bound to major histocompatibility complex (MHC) molecules. The binding between TCR and antigen is of relatively low affinity and is degenerate: that is, many TCR recognize the same antigen and many antigens are recognized by the same TCR.
Specificity	Hamster anti Mouse TCR Gamma/Delta antibody, clone HM4 reacts with mouse TCR gamma/delta expressing lymphocytes.Hamster anti Mouse TCR Gamma/Delta antibody, clone HM4 has been shown to have depleting activity in vivo.
Immunogen	C57BL/6J intraepithelial lymphocytes
Isotype	IgG
Source/Host	Armenian Hamster
Species Reactivity	Mouse
Clone	HM4
Conjugate	PE
Applications	Flow Cytometry
Preparation	Purified IgG prepared by affinity chromatography on Protein A
Format	Purified IgG conjugated to R. Phycoerythrin (RPE) - liquid
Size	500 μΙ
Buffer	Phosphate buffered saline

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Preservative	0.09% Sodium Azide
Storage	Store at +4°C. DO NOT FREEZEThis 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	Cd3d CD3 antigen, delta polypeptide [Mus musculus (house mouse)]
Official Symbol	TCR Gamma/Delta
Synonyms	TCR Gamma/Delta; T-cell receptor gamma/delta; T3d; T-cell surface glycoprotein CD3 delta chain; T-cell receptor T3 delta chain
Entrez Gene ID	12500
Protein Refseq	<u>NP_038515</u>
UniProt ID	<u>P04235</u>
Chromosome Location	9 A5.2; 9 24.84 cM
Pathway	Adaptive Immune System; Chagas disease (American trypanosomiasis); Costimulation by the CD28 family; Downstream TCR signaling; Generation of second messenger molecules; HTLV-I infection; Hematopoietic cell lineage; Immune System; Immunoregulatory interactions between a Lymphoid and a non-Lymphoid cell; Measles; 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
Function	protein binding;protein heterodimerization activity;transmembrane signaling receptor activity
References	 Skarstein, K. et al. (1994) Oligoclonality of T cells in salivary glands of autoimmune MRL/lpr mice.Immunology 81: 497-501. Van der Heyde, H. C. et al. (1995) Gamma/delta T cells function in cell mediated immunity to acute blood-stage plasmodium chabaudi adami Malaria. J. Immunol. 154: 3985 - 3990. Skeen, M. J. and Ziegler, H.K. (1993) Induction of murine peritoneal gamma/delta T cells and their role in resistance to bacterial infection. J. Exp. Med. 178: 971 - 984. Karasova, D. et al. (2010) Influence of 5 major Salmonella pathogenicity islands on NK cell depletion in mice infected with Salmonella enterica serovar Enteritidis. BMC Microbiol. 10: 75. Kinoshita, N. et al. (2002) Autocrine IL-15 mediates intestinal epithelial cell death via the activation of neighboring intraepithelial NK cells.J Immunol. 169: 6187-92. Laky, K. et al. (2000) Enterocyte expression of interleukin 7 induces development of gammadelta T cells and Peyer's patches.J Exp Med. 191: 1569-80.

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