



Anti-CRTAM polyclonal antibody [Biotin] (DPABY-530)

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

PRODUCT INFORMATION

Antigen Description	CRTAM (Class I-restricted T cell-associated molecule) is a nectin family member of the immunoglobulin superfamily that is expressed by activated CD8+ and NK T cells. NK activation receptor engagement, but not cytokines, also induce NK CRTAM expression. CRTAM is found in spleen, thymus, small intestine, peripheral blood, and in brain where it is highly expressed by Purkinje cells of the cerebellum. Human CRTAM is a 393 amino acid (aa), 80 kDa type I transmembrane glycoprotein. CRTAM is a homodimer on the cell surface but does not show homotypic binding in trans. The high affinity of CRTAM/IGSF4 adhesion allows CRTAM to disrupt IGSF4 homotypic interactions. IGSF4 and T cell receptor co-engagement of CRTAM-expressing CD8+ cells induces increased IFN-gamma or IL-22 production. A role in cancer surveillance through NK cell-mediated rejection of IGSF4-expressing tumors has been proposed. IGSF4 is expressed broadly, including on epithelia, neurons, a subset of tonsillar B cells and a rare splenic T zone-restricted BCDA3+ dendritic cell population which interacts with CRTAM.
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Specificity	Detects human CRTAM in ELISAs and Western blots. In sandwich immunoassays, less than 2% cross-reactivity with recombinant mouse CRTAM is observed.
Immunogen	Mouse myeloma cell line NS0-derived recombinant human CRTAM. Ser18-Ser286 Accession Number O95727
Isotype	IgG
Source/Host	Goat
Species Reactivity	Human
Purification	Antigen Affinity-purified
Conjugate	Biotin

Applications	Western Blot, ELISA Detection (Matched Pair)
Format	Liquid
Size	50 µg
Buffer	Lyophilized from a 0.2 µm filtered solution in PBS with BSA as a carrier protein.
Preservative	None
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 °C as supplied. 1 month, 2 to 8 °C under sterile conditions after reconstitution. 6 months, -20 to -70 °C under sterile conditions after reconstitution.

GENE INFORMATION

Gene Name	CRTAM cytotoxic and regulatory T cell molecule [Homo sapiens (human)]
Official Symbol	CRTAM
Synonyms	CRTAM; cytotoxic and regulatory T cell molecule; CD355; cytotoxic and regulatory T-cell molecule; class I MHC restricted T cell associated molecule; class-I MHC-restricted T cell associated molecule; class-I MHC-restricted T-cell-associated molecule;
Entrez Gene ID	56253
Protein Refseq	NP_062550
UniProt ID	O95727
Chromosome Location	11q24.1
Pathway	Adaptive Immune System; Immune System; Immunoregulatory interactions between a Lymphoid and a non-Lymphoid cell;
Function	receptor binding;