



# Anti-CRTAM polyclonal antibody (DPABY-336)

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.

<b>Specificity</b>	Detects human CRTAM in ELISAs and Western blots. Insandwich immunoassays,less than 2% cross-reactivity with recombinant mouse CRTAM is observed.
<b>Immunogen</b>	Mouse myeloma cell line NS0-derived recombinant human CRTAM. Met1-Ser286 Accession Number O95727
<b>Isotype</b>	IgG
<b>Source/Host</b>	Goat
<b>Species Reactivity</b>	Human
<b>Purification</b>	Antigen Affinity-purified
<b>Conjugate</b>	Unconjugated
<b>Applications</b>	Western Blot, ELISA Capture (Matched Pair)

<b>Format</b>	Liquid
<b>Size</b>	100 µg
<b>Buffer</b>	Lyophilized from a 0.2 µm filtered solution in phosphate-buffered saline (PBS) with 5% trehalose.
<b>Preservative</b>	None
<b>Storage</b>	Lyophilized samples are stable for twelve months from date of receipt when stored at -20 °C to -70 °C. Upon reconstitution, the antibody can be stored at 2 °C to 8 °C for 1 month without detectable loss of activity. Reconstituted antibody can also be aliquotted and stored frozen at -20 °C to -70 °C in a manual defrost freezer for six months without detectable loss of activity. Avoid repeated freeze-thaw cycles.

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">CRTAM cytotoxic and regulatory T cell molecule [ Homo sapiens (human) ]</a>
<b>Official Symbol</b>	CRTAM
<b>Synonyms</b>	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;
<b>Entrez Gene ID</b>	<a href="#">56253</a>
<b>Protein Refseq</b>	<a href="#">NP_062550</a>
<b>UniProt ID</b>	<a href="#">O95727</a>
<b>Chromosome Location</b>	11q24.1
<b>Pathway</b>	Adaptive Immune System; Immune System; Immunoregulatory interactions between a Lymphoid and a non-Lymphoid cell;
<b>Function</b>	receptor binding;