10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

CRTAM Polyclonal Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP58254

Specification

CRTAM Polyclonal Antibody - Product Information

Application	**WB, FC**
Primary Accession	O95727
Reactivity	**Rat, Pig**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**44641**

CRTAM Polyclonal Antibody - Additional Information

Gene ID 56253

Other Names
Cytotoxic and regulatory T-cell molecule, Class-I MHC-restricted T-cell-associated molecule, CD355, CRTAM {ECO:0000312|EMBL:AAC80267.1}

Format
0.01M TBS(pH7.4), 0.09% (W/V) sodium azide and 50% Glyce

Storage
Store at -20 ℃ for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 ℃.

CRTAM Polyclonal Antibody - Protein Information

Name CRTAM {ECO:0000312|EMBL:AAC80267.1}

Function
Mediates heterophilic cell-cell adhesion which regulates the activation, differentiation and tissue retention of various T-cell subsets (By similarity). Interaction with CADM1 promotes natural killer (NK) cell cytotoxicity and IFNG/interferon-gamma secretion by CD8+ T- cells in vitro as well as NK cell-mediated rejection of tumors expressing CADM1 in vivo (PubMed:15811952). Regulates CD8+ T-cell proliferation in response to T-cell receptor (TCR) activation (By similarity). Appears to be dispensable for CD8+ T-cell-mediated cytotoxicity (By similarity). Interaction with SCRIB promotes the late phase of cellular polarization of a subset of CD4+ T-cells, which in turn regulates TCR-mediated proliferation and IFNG, IL17 and IL22 production (By similarity). By interacting with CADM1 on CD8+ dendritic cells, regulates the retention of activated CD8+ T-cells within the draining lymph node (By similarity). Required for the intestinal retention of intraepithelial CD4+ CD8+ T-cells and, to a lesser extent, intraepithelial and lamina propria CD8+ T-cells and CD4+ T-cells (By similarity). Interaction with CADM1 promotes the adhesion to gut- associated CD103+ dendritic cells, which may facilitate the expression of gut-homing and adhesion molecules on T-cells and the conversion of CD4+ T-cells into CD4+ CD8+ T-cells (By similarity).

Cellular Location
Cell membrane {ECO:0000250|UniProtKB:Q149L7}; Single-pass type I membrane protein. Note=In a subset of CD4+ T-cells, colocalizes with SCRIB at the immunological synapse during the late phase of T-cell activation {ECO:0000250|UniProtKB:Q149L7}

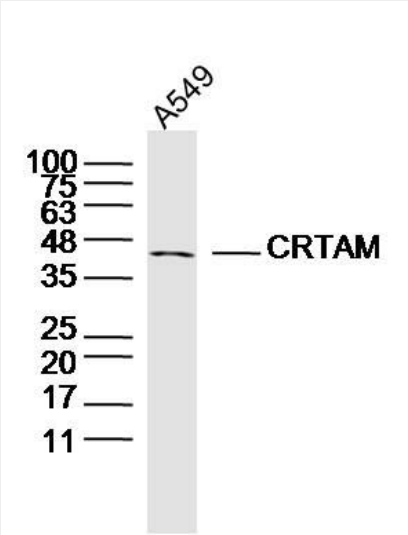
Tissue Location
In the immune system, expression is restricted to activated class-I MHC-restricted cells, including NKT and CD8 T-cells (PubMed:10811014, PubMed:15811952, PubMed:16300832). Strongly expressed in spleen, thymus, small intestine, peripheral blood leukocyte, and in Purkinje neurons in cerebellum. Expressed at much lower levels in testis, ovary, colon, lung and lymphoid tissues (PubMed:16300832)

CRTAM Polyclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

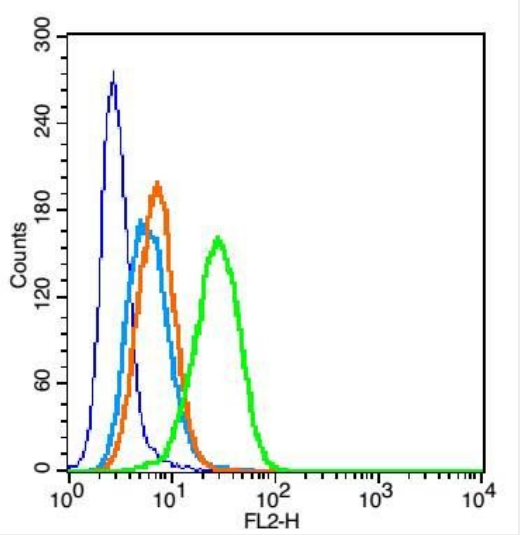
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

CRTAM Polyclonal Antibody - Images



Sample: A549 Cell (Human) Lysate at 40 ug
Primary: Anti-CRTAM (bs-4957R) at 1/300 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 42 kD
Observed band size: 42 kD

10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999



Blank control(blue): U937 (fixed with 2% paraformaldehyde (10 min)).
Primary Antibody:Rabbit Anti-CRTAM antibody(bs-4957R), Dilution: 1 µg in 100 µL 1X PBS containing 0.5% BSA;
Isotype Control Antibody: Rabbit IgG(orange) ,used under the same conditions);
Secondary Antibody: Goat anti-rabbit IgG-PE(white blue), Dilution: 1:200 in 1 X PBS containing 0.5% BSA.