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

Anti-CD229 Antibody
Rabbit polyclonal antibody to CD229
Catalog # AP60334

Specification

Anti-CD229 Antibody - Product Information

Application	**WB**
Primary Accession	Q9HBG7
Other Accession	Q01965
Reactivity	**Human, Mouse, Rat**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**72139**

Anti-CD229 Antibody - Additional Information

Gene ID 4063

Other Names
T-lymphocyte surface antigen Ly-9; Cell surface molecule Ly-9; Lymphocyte antigen 9; SLAM family member 3; SLAMF3; Signaling lymphocytic activation molecule 3; CD229

Target/Specificity
Recognizes endogenous levels of CD229 protein.

Dilution
WB~~WB (1/500 - 1/1000)

Format
Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.

Storage
Store at -20 °C.Stable for 12 months from date of receipt

Anti-CD229 Antibody - Protein Information

Name LY9

Function
Self-ligand receptor of the signaling lymphocytic activation molecule (SLAM) family. SLAM receptors triggered by homo- or heterotypic cell-cell interactions are modulating the activation and differentiation of a wide variety of immune cells and thus are involved in the regulation and interconnection of both innate and adaptive immune response. Activities are controlled by presence or absence of small cytoplasmic adapter proteins, SH2D1A/SAP and/or SH2D1B/EAT-2. May participate in adhesion reactions between T lymphocytes and accessory cells by homophilic interaction. Promotes T-cell differentiation into a helper T-cell Th17 phenotype leading to increased IL-17 secretion; the costimulatory activity requires SH2D1A (PubMed:<a

href="http://www.uniprot.org/citations/22184727" target="_blank">22184727). Promotes recruitment of RORC to the IL-17 promoter (PubMed:22989874). May be involved in the maintenance of peripheral cell tolerance by serving as a negative regulator of the immune response. May disable autoantibody responses and inhibit IFN-gamma secretion by CD4(+) T-cells. May negatively regulate the size of thymic innate CD8(+) T-cells and the development of invariant natural killer T (iNKT) cells (By similarity).

Cellular Location
Membrane; Single-pass type I membrane protein. Cell membrane

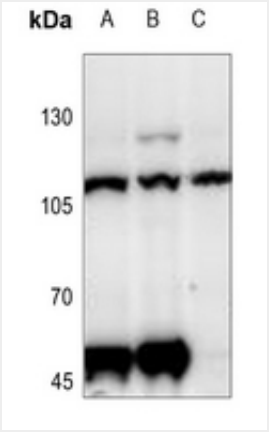
Tissue Location
Increased surface expression on T-cells of systemic lupus erythematosus (SLE) patients.

Anti-CD229 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

Anti-CD229 Antibody - Images



Western blot analysis of CD229 expression in SGC7901 (A), HCT116 (B), HUT78 (C) whole cell lysates.

Anti-CD229 Antibody - Background

KLH-conjugated synthetic peptide encompassing a sequence within the center region of human CD229. The exact sequence is proprietary.