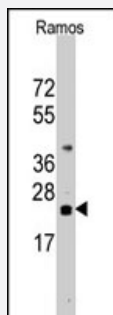


CD247 polyclonal antibody

Catalog # PAB2493

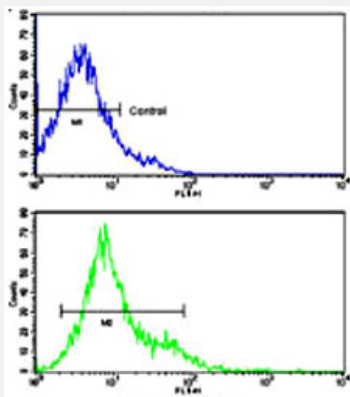
Size 400 uL

Applications



Western Blot (Cell lysate)

Western blot analysis of CD247 polyclonal antibody (Cat # PAB2493) in Ramos cell line lysates (35 ug/lane). CD247 (arrow) was detected using the purified polyclonal antibody.



Flow Cytometry

Flow cytometric analysis of Ramos cells using CD247 polyclonal antibody (Cat # PAB2493)(bottom histogram) compared to a negative control cell (top histogram).

FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of CD247.
Immunogen	A synthetic peptide (conjugated with KLH) corresponding to N-terminus of human CD247.
Host	Rabbit
Reactivity	Human
Form	Liquid
Purification	Protein A purification

Recommend Usage	Western Blot (1:1000) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (0.09% sodium azide)
Storage Instruction	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot (Cell lysate)

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- Flow Cytometry

Flow cytometric analysis of Ramos cells using CD247 polyclonal antibody (Cat # PAB2493)(bottom histogram) compared to a negative control cell (top histogram).

FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

Gene Info — CD247

Entrez GeneID	919
Protein Accession#	NP_932170;P20963
Gene Name	CD247
Gene Alias	CD3-ZETA, CD3H, CD3Q, CD3Z, T3Z, TCRZ
Gene Description	CD247 molecule
Omim ID	186780 610163
Gene Ontology	Hyperlink
Gene Summary	The protein encoded by this gene is T-cell receptor zeta, which together with T-cell receptor alpha/beta and gamma/delta heterodimers, and with CD3-gamma, -delta and -epsilon, forms the T-cell receptor-CD3 complex. The zeta chain plays an important role in coupling antigen recognition to several intracellular signal-transduction pathways. Low expression of the antigen results in impaired immune response. Two alternatively spliced transcript variants encoding distinct isoforms have been found for this gene. [provided by RefSeq]

Other Designations

CD247 antigen, zeta subunit|CD3Z antigen, zeta polypeptide (TiT3 complex)|OTTHUMP00000032544|T-cell antigen receptor complex, zeta subunit of CD3|T-cell receptor T3 zeta chain|T-cell receptor zeta chain|T-cell surface glycoprotein CD3 zeta chain

Publication Reference

- [Association of polymorphisms in complement component C3 gene with susceptibility to systemic lupus erythematosus.](#)

Miyagawa H, Yamai M, Sakaguchi D, Kiyohara C, Tsukamoto H, Kimoto Y, Nakamura T, Lee JH, Tsai CY, Chiang BL, Shimoda T, Harada M, Tahira T, Hayashi K, Horiuchi T.

Rheumatology (Oxford, England) 2008 Feb; 47(2):158.

- [Polymorphisms in the CD3Z gene influence TCRzeta expression in systemic lupus erythematosus patients and healthy controls.](#)

Gorman CL, Russell AI, Zhang Z, Cunningham Graham D, Cope AP, Vyse TJ.

Journal of Immunology 2008 Jan; 180(2):1060.

Application: Flow Cyt, Human, Human lymphocytes

- [Chronic inflammation and T cell zeta-chain downregulation in hemodialysis patients.](#)

Eleftheriadis T, Kartsios C, Yiannaki E, Kazila P, Antoniadis G, Liakopoulos V, Markala D.

American Journal of Nephrology 2008 Oct; 28(1):152.

Application: Flow Cyt, Human, T cells from hemodialysis (HD) patients

Pathway

- [Natural killer cell mediated cytotoxicity](#)
- [T cell receptor signaling pathway](#)

Disease

- [Arthritis](#)
- [Genetic Predisposition to Disease](#)
- [Hypertension](#)
- [Lupus Erythematosus](#)

- [Osteoporosis](#)
- [Scleroderma](#)