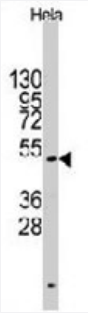
CD4 polyclonal antibody

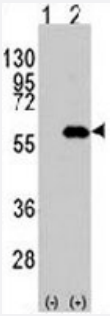
Catalog # PAB3534 Size 400 uL

Applications



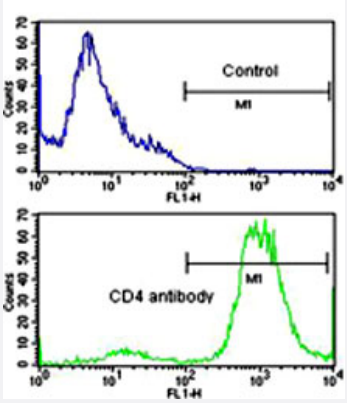
Western Blot (Cell lysate)

Western blot analysis of CD4 polyclonal antibody (Cat # PAB3534) in HeLa cell line lysates (35 ug/lane). CD4 (arrow) was detected using the purified polyclonal antibody (1:1000 dilution).



Western Blot (Transfected lysate)

(RIGHT) Western blot analysis of CD4 (arrow) using rabbit CD4 polyclonal antibody (Cat # PAB3534). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the CD4 gene (Lane 2) (Origene Technologies).



Flow Cytometry

Flow cytometric analysis of CEM cells using CD4 polyclonal antibody (Cat # PAB3534)(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 CD4.

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Immunogen	A synthetic peptide (conjugated with KLH) corresponding to amino acids 58-86 at N-terminus of hum an CD4.
Host	Rabbit
Reactivity	Human
Form	Liquid
Purification	Ammonium sulfate precipitation
Recommend Usage	Flow Cytometry (1:10-50) 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 shoul d be handled by trained staff only.

Applications

- Western Blot (Cell lysate)

  Western blot analysis of CD4 polyclonal antibody (Cat # PAB3534) in HeLa cell line lysates (35 ug/lane). CD4 (arrow) was detected using the purified polyclonal antibody (1:1000 dilution).

- Western Blot (Transfected lysate)

  (RIGHT) Western blot analysis of CD4 (arrow) using rabbit CD4 polyclonal antibody (Cat # PAB3534). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the CD4 gene (Lane 2) (Origene Technologies).

- Flow Cytometry

  Flow cytometric analysis of CEM cells using CD4 polyclonal antibody (Cat # PAB3534)(bottom histogram) compared to a negative control cell (top histogram).
  FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

Gene Info — CD4

Entrez GeneID	920
Protein Accession#	NP_000607;P01730
Gene Name	CD4

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Gene Alias	CD4mut
Gene Description	CD4 molecule
Omim ID	186940
Gene Ontology	Hyperlink
Other Designations	CD4 antigen|CD4 antigen (p55)|CD4 receptor

Publication Reference

- Structural basis for the interaction between focal adhesion kinase and CD4.

  Garron ML, Arthos J, Guichou JF, McNally J, Cicala C, Arold ST.

  Journal of Molecular Biology 2008 Feb; 375(5):1320.

  Application: IF, IP, WB, Human, Human T cells

- Sequence variation occurs in CD4 epitopes during early HIV infection.

  Rychert J, Saindon S, Placek S, Daskalakis D, Rosenberg E.

  Journal of Acquired Immune Deficiency Syndromes 2007 Nov; 46(3):261.

Pathway

- Antigen processing and presentation
- Cell adhesion molecules (CAMs)
- Hematopoietic cell lineage
- Primary immunodeficiency
- T cell receptor signaling pathway

Disease

- Acquired Immunodeficiency Syndrome
- Arthritis
- Asthma

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- Breast cancer
- Breast Neoplasms
- Disease Progression
- Disease Susceptibility
- Genetic Predisposition to Disease
- Head and Neck Neoplasms
- Hematologic Diseases
- Hepatitis C
- HIV Infections
- Hodgkin Disease
- Lung Neoplasms
- Lupus Erythematosus
- Lymphoproliferative Disorders
- Multiple Myeloma
- Multiple Sclerosis
- Neoplasm Recurrence
- Neoplasms
- Occupational Diseases
- Pregnancy Complications
- Pulmonary Disease
- Urinary Bladder Neoplasms
- Viremia
- Vitiligo
- Waldenstrom Macroglobulinemia
- Werner syndrome

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