

## ARG52768 anti-CD4 antibody [SP35]

Package: 100 µl, 50 µl  
Store at: -20°C

### Summary

Product Description	Rabbit Monoclonal antibody [SP35] recognizes CD4
Tested Reactivity	Hu
Predict Reactivity	Pig
Tested Application	FACS, IHC-P
Host	Rabbit
Clonality	Monoclonal
Clone	SP35
Isotype	IgG
Target Name	CD4
Species	Human
Immunogen	Synthetic peptide corresponding to internal region of human CD4.
Conjugation	Un-conjugated
Alternate Names	CD4mut; CD antigen CD4; T-cell surface glycoprotein CD4; T-cell surface antigen T4/Leu-3

### Application Instructions

Application table	Application	Dilution
	FACS	1:100 (Incubate for 30 minutes at 4°C)
	IHC-P	1:50
Application Note	IHC-P: Antigen Retrieval: Boil tissue section in 10mM EDTA buffer for 10 min followed by cooling at RT for 20 min. Incubation Time: 30 min at RT. * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Positive Control	T Cell Lymphoma, Tonsil	

### Properties

Form	Liquid
Purification	Purified by protein A/G
Buffer	PBS (pH 7.6), 1% BSA and < 0.1% Sodium azide
Preservative	< 0.1% Sodium azide
Stabilizer	1% BSA
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated

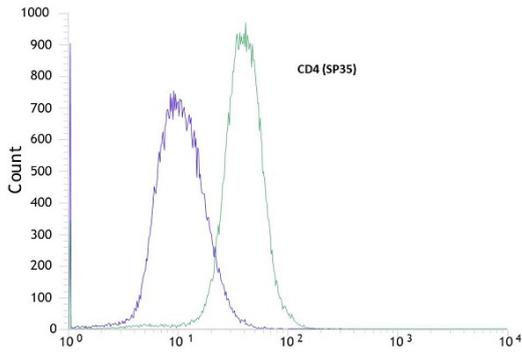
freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

**Note** For laboratory research only, not for drug, diagnostic or other use.

## Bioinformation

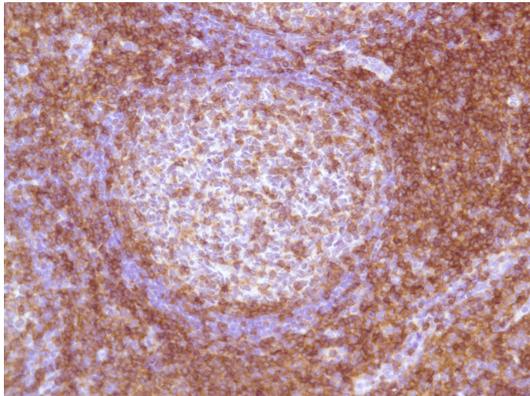
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Database links	<a href="#">GeneID: 920 Human</a> <a href="#">Swiss-port # P01730 Human</a>
Gene Symbol	CD4
Gene Full Name	CD4 molecule
Background	CD4 is a membrane glycoprotein of T lymphocytes that interacts with major histocompatibility complex class II antigens and is also a receptor for the human immunodeficiency virus. This gene is expressed not only in T lymphocytes, but also in B cells, macrophages, and granulocytes. It is also expressed in specific regions of the brain. The protein functions to initiate or augment the early phase of T-cell activation, and may function as an important mediator of indirect neuronal damage in infectious and immune-mediated diseases of the central nervous system. Multiple alternatively spliced transcript variants encoding different isoforms have been identified in this gene. [provided by RefSeq, Aug 2010]
Function	CD4 is an integral membrane glycoprotein that plays an essential role in the immune response and serves multiple functions in responses against both external and internal offenses. In T-cells, functions primarily as a coreceptor for MHC class II molecule:peptide complex. The antigens presented by class II peptides are derived from extracellular proteins while class I peptides are derived from cytosolic proteins. Interacts simultaneously with the T-cell receptor (TCR) and the MHC class II presented by antigen presenting cells (APCs). In turn, recruits the Src kinase LCK to the vicinity of the TCR-CD3 complex. LCK then initiates different intracellular signaling pathways by phosphorylating various substrates ultimately leading to lymphokine production, motility, adhesion and activation of T-helper cells. In other cells such as macrophages or NK cells, plays a role in differentiation/activation, cytokine expression and cell migration in a TCR/LCK-independent pathway. Participates in the development of T-helper cells in the thymus and triggers the differentiation of monocytes into functional mature macrophages. [UniProt]
Highlight	Related Antibody Duos and Panels: <a href="#">ARG30086 Regulatory T cells Marker Antibody Duo (FoxP3, CD4)</a> Related products: <a href="#">CD4 antibodies</a> ; <a href="#">CD4 ELISA Kits</a> ; <a href="#">CD4 Duos / Panels</a> ; <a href="#">Anti-Rabbit IgG secondary antibodies</a> ; Related news: <a href="#">Lymphoma</a> <a href="#">New antibody panels and duos for Tumor immune microenvironment</a> <a href="#">Tumor-Infiltrating Lymphocytes (TILs)</a>
Research Area	Developmental Biology antibody; Immune System antibody; Regulatory T cells Study antibody; T-cell infiltration Study antibody; Tumor-infiltrating Lymphocyte Study antibody
Calculated Mw	51 kDa
PTM	Palmitoylation and association with LCK contribute to the enrichment of CD4 in lipid rafts.
Cellular Localization	Membrane



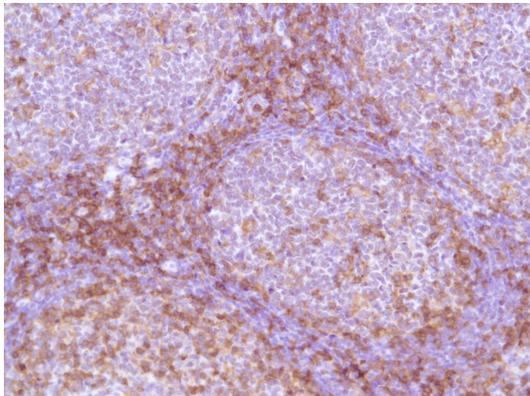
ARG52768 anti-CD4 antibody [SP35] Flow Cytometry image

Flow Cytometry: Jurkat cells stained with ARG52768 anti-CD4 antibody [SP35] (green) and control IgG (blue).



ARG52768 anti-CD4 antibody [SP35] IHC-P image

Immunohistochemistry: Human Tonsil stained with CD4 antibody [SP35] (ARG52768)



ARG52768 anti-CD4 antibody [SP35] IHC-P image

Immunohistochemistry: Human Tonsil stained with CD4 antibody [SP35] (ARG52768)