

Datasheet for ABIN3032399
anti-CD45 antibody (AA 1209-1227)



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5 Images

Overview

Quantity:	100 µg
Target:	CD45 (PTPRC)
Binding Specificity:	AA 1209-1227
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This CD45 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunocytochemistry (ICC)

Product Details

Immunogen:	Amino acids 1209-1227 (MVSTFEQYQFLYDVIASTY-human) were used as the immunogen for this anti-CD45 antibody.
Isotype:	IgG
Purification:	Antigen affinity

Target Details

Target:	CD45 (PTPRC)
Alternative Name:	CD45 (PTPRC Products)
Background:	Cluster of Differentiation 45, also known as PTPRC, is an enzyme that, in humans, is encoded by the PTPRC gene. It is a member of the protein tyrosine phosphatase(PTP) family. CD45 is a

Target Details

major high molecular mass leukocyte cell surface molecule which is also an integral membrane protein tyrosine phosphatase. Targeted disruption of the gene leads to enhanced cytokine and interferon receptor-mediated activation of JAKs and STAT proteins. In vitro, CD45 directly dephosphorylates and binds to JAKs. Functionally, it negatively regulates interleukin-3-mediated cellular proliferation, erythropoietin-dependent hematopoiesis, and antiviral responses in vitro and in vivo. It has been best studied in T cells, where it determines T cell receptor signaling thresholds. CD45 is moved into or out of the immunological synapse(IS) membrane microdomain depending on the relative influence of interaction with the extracellular galectin lattice or the intracellular actin cytoskeleton. Galectin interaction can be finetuned by varying usage of the heavily Oglycosylated spliced regions and sialylation of Nlinked carbohydrates.

UniProt:	P08575
Pathways:	TCR Signaling , Regulation of Leukocyte Mediated Immunity , Positive Regulation of Immune Effector Process , Production of Molecular Mediator of Immune Response , CXCR4-mediated Signaling Events , BCR Signaling

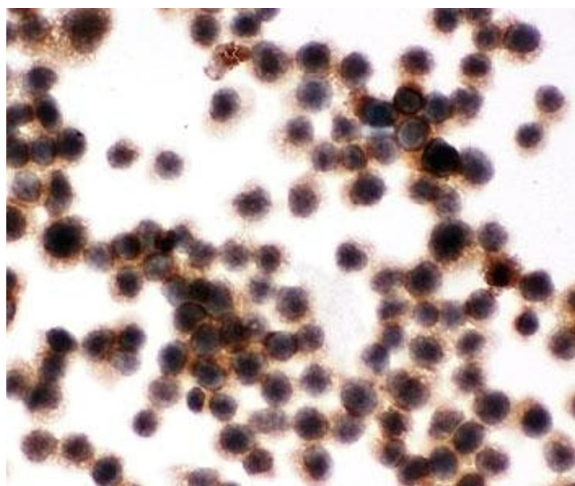
Application Details

Application Notes:	The stated application concentrations are suggested starting amounts. Titration of the anti-CD45 antibody may be required due to differences in protocols and secondary/substrate sensitivity.\. Western blot: 0.5-1 µg/mL,IHC (Paraffin): 0.5-1 µg/mL,Immunocytochemistry: 0.5-1 µg/mL
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Restrictions:	For Research Use only
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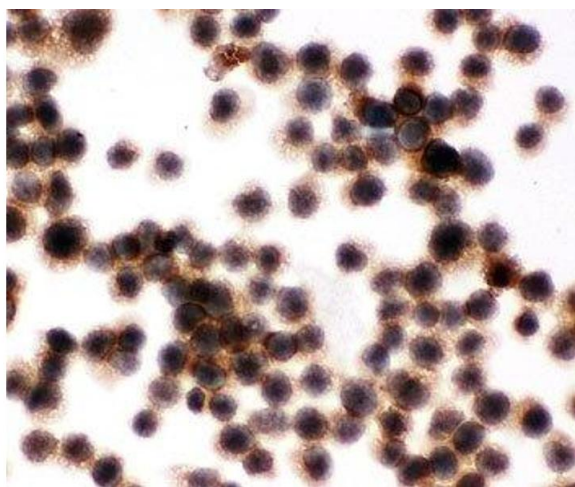
Handling

Buffer:	0.5 mg/mL if reconstituted with 0.2 mL sterile DI water
Storage:	-20 °C
Storage Comment:	After reconstitution, the anti-CD45 antibody can be stored for up to one month at 4°C. For long-term, aliquot and store at -20°C. Avoid repeated freezing and thawing.



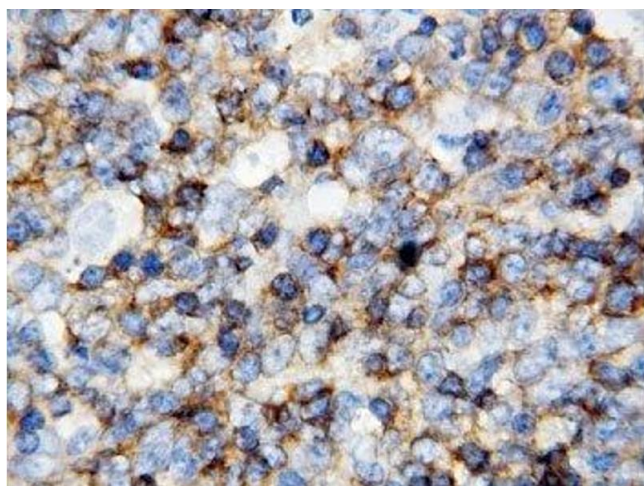
Immunocytochemistry

Image 1. ICC testing of Jurkat cells



Immunocytochemistry

Image 2. ICC testing of Jurkat cells



Immunohistochemistry

Image 3. IHC-P: anti-CD45 antibody testing of human tonsil tissue

Please check the [product details page](#) for more images. Overall 5 images are available for ABIN3032399.