

Datasheet for ABIN2172749

anti-CD45 antibody (AA 501-600)[Go to Product page](#)**1** Image**4** Publications

Overview

Quantity:	100 µL
Target:	CD45 (PTPRC)
Binding Specificity:	AA 501-600
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This CD45 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), ELISA, Immunohistochemistry (Frozen Sections) (IHC (fro)), Immunofluorescence (Paraffin-embedded Sections) (IF (p))

Product Details

Immunogen:	KLH conjugated synthetic peptide derived from rat CD45
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Purification:	Purified by Protein A.

Target Details

Target:	CD45 (PTPRC)
Alternative Name:	CD45 (PTPRC Products)

Target Details

Background:	Synonyms: Lca, RT7, CD45, L-CA, T200, Receptor-type tyrosine-protein phosphatase C, Leukocyte common antigen, Ptpcr Background: Protein tyrosine-protein phosphatase required for T-cell activation through the antigen receptor. Acts as a positive regulator of T-cell coactivation upon binding to DPP4. The first PTPase domain has enzymatic activity, while the second one seems to affect the substrate specificity of the first one. Upon T-cell activation, recruits and dephosphorylates SKAP1 and FYN (By similarity). Dephosphorylates LYN, and thereby modulates LYN activity (By similarity).
Gene ID:	24699
UniProt:	P04157
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:	WB 1:300-5000 ELISA 1:500-1000 FCM 1:20-100 IHC-P 1:200-400 IHC-F 1:100-500 IF(IHC-P) 1:50-200 IF(IHC-F) 1:50-200 IF(ICC) 1:50-200 ICC 1:100-500
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	1 µg/µL
Buffer:	0.01M TBS(pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.

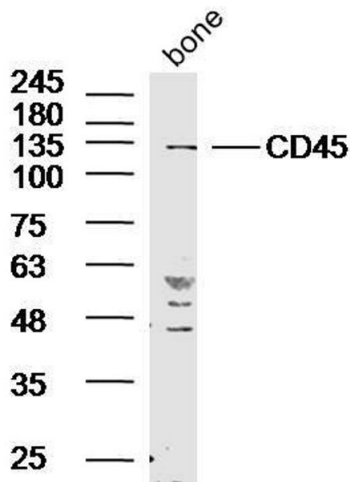
Handling

Storage:	4 °C,-20 °C
Storage Comment:	Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.
Expiry Date:	12 months

Publications

Product cited in:	Long, Luo, Wang, Bates, Shetty: "Mash1-dependent Notch Signaling Pathway Regulates GABAergic Neuron-Like Differentiation from Bone Marrow-Derived Mesenchymal Stem Cells." in: Aging and disease, Vol. 8, Issue 3, pp. 301-313, (2017) (PubMed). Naderi-Meshkin, Matin, Heirani-Tabasi, Mirahmadi, Irfan-Maqsood, Edalatmanesh, Shahriyari, Ahmadiankia, Moussavi, Bidkhori, Bahrami: "Injectable hydrogel delivery plus preconditioning of mesenchymal stem cells: exploitation of SDF-1/CXCR4 axis towards enhancing the efficacy of stem cells' homing." in: Cell biology international, (2015) (PubMed). Kuang, Yang, Zhang, Zhang, Wu: "Schlafen 1 inhibits the proliferation and tube formation of endothelial progenitor cells." in: PLoS ONE, Vol. 9, Issue 10, pp. e109711, (2014) (PubMed). Lei, Huang, Su, Luo, Korteweg, Li, Chen, Qiu, Liu, Yan, Wang, Gu: "Expression and distribution of immunoglobulin G in the normal liver, hepatocarcinoma and postpartial hepatectomy liver." in: Laboratory investigation; a journal of technical methods and pathology, Vol. 94, Issue 11, pp. 1283-95, (2014) (PubMed).
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Images



Western Blotting

Image 1. Rat bone lysates probed with Rabbit Anti-CD45 Polyclonal Antibody, Unconjugated at 1:300 in 4°C overnight. Followed by conjugation to secondary antibody -HRP) at 1:5000 for 90min at 37°C.