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anti-CD45 antibody (AA 431-577)





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Overview

Quantity:	0.1 mg
Target:	CD45 (PTPRC)
Binding Specificity:	AA 431-577
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Application:	Flow Cytometry (FACS), Immunohistochemistry (IHC), Western Blotting (WB), ELISA, Immunocytochemistry (ICC), Neutralization (Neut)

Product Details

Immunogen:	Purified recombinant fragment of human CD45 (AA: extra 431-577) expressed in E. coli.
Clone:	7C9F12
Isotype:	lgG2b
Purification:	purified

Target Details

Target:	CD45 (PTPRC)
Alternative Name:	CD45 (PTPRC Products)
Background:	Description: The protein encoded by this gene is a member of the protein tyrosine phosphatase (PTP) family. PTPs are known to be signaling molecules that regulate a variety of cellular processes including cell growth, differentiation, mitosis, and oncogenic transformation. This

PTP contains an extracellular domain, a single transmembrane segment and two tandem intracytoplasmic catalytic domains, and thus is classified as a receptor type PTP. This PTP has been shown to be an essential regulator of T- and B-cell antigen receptor signaling. It functions through either direct interaction with components of the antigen receptor complexes, or by activating various Src family kinases required for the antigen receptor signaling. This PTP also suppresses JAK kinases, and thus functions as a regulator of cytokine receptor signaling. Alternatively spliced transcripts variants of this gene, which encode distinct isoforms, have been reported.

Aliases: PTPRC, LCA, LY5, B220, L-CA, T200, CD45R, GP180

Molecular Weight: 147.3 kDa 5788 Gene ID: HGNC: 1142 Pathways: TCR Signaling, Regulation of Leukocyte Mediated Immunity, Positive Regulation of Immune Effector Process, Production of Molecular Mediator of Immune Response, CXCR4-mediated

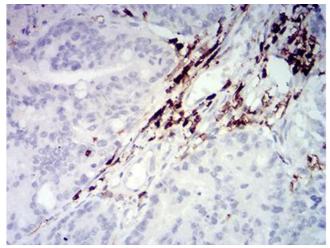
Signaling Events, BCR Signaling

Application Details

Application Notes:	ELISA: 1:10000, WB: 1:500 - 1:2000, ICC: N/A, FCM: 1:200 - 1:400, IHC: 1:200 - 1:1000
Restrictions:	For Research Use only

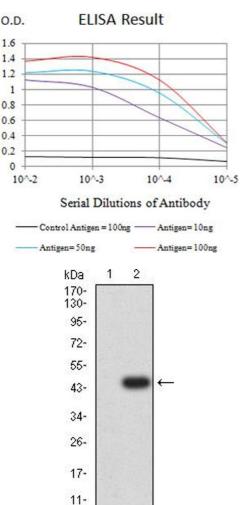
Handling

Format:	Liquid
Buffer:	Purified antibody in PBS with 0.05 % sodium azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C/-20 °C
Storage Comment:	4°C, -20°C for long term storage



Immunohistochemistry

Image 1. Immunohistochemical analysis of paraffinembedded rectum cancer tissues using CD45 mouse mAb with DAB staining.



ELISA

Image 2. Black line: Control Antigen (100 ng), Purple line: Antigen (10 ng), Blue line: Antigen (50 ng), Red line: Antigen (100 ng)

Western Blotting

Image 3. Western blot analysis using CD45 mAb against HEK293 (1) and CD45 (AA: extra 431-577)-hlgGFc transfected HEK293 (2) cell lysate.

Please check the product details page for more images. Overall 6 images are available for ABIN5684125.