

Datasheet for ABIN6254922  
**anti-CD45 antibody (pSer1007)**



[Go to Product page](#)

2 Images

## Overview

Quantity:	100 µL
Target:	CD45 (PTPRC)
Binding Specificity:	pSer1007
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This CD45 antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF), ELISA, Immunocytochemistry (ICC)

## Product Details

Immunogen:	A synthesized peptide derived from human CD45 around the phosphorylation site of Ser1007.
Isotype:	IgG
Specificity:	Phospho-CD45 (Ser1007) Antibody detects endogenous levels of CD45 only when phosphorylated at Ser1009, which site historically referenced as Ser1007.
Predicted Reactivity:	Pig,Dog
Purification:	The antibody is from purified rabbit serum by affinity purification via sequential chromatography on phospho- and non-phospho-peptide affinity columns.

## Target Details

Target:	CD45 (PTPRC)
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## Target Details

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Alternative Name:	PTPRC ( <a href="#">PTPRC Products</a> )
Background:	<p>Description: 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. Dephosphorylates LYN, and thereby modulates LYN activity (By similarity).</p> <p>Gene: PTPRC</p>
Molecular Weight:	150kDa
Gene ID:	5788
UniProt:	<a href="#">P08575</a>
Pathways:	<a href="#">TCR Signaling</a> , <a href="#">Regulation of Leukocyte Mediated Immunity</a> , <a href="#">Positive Regulation of Immune Effector Process</a> , <a href="#">Production of Molecular Mediator of Immune Response</a> , <a href="#">CXCR4-mediated Signaling Events</a> , <a href="#">BCR Signaling</a>

## Application Details

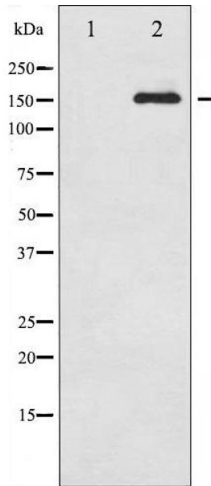
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Application Notes:	WB 1:500-1:2000, IF/ICC 1:100-1:500, ELISA(peptide) 1:20000-1:40000
Restrictions:	For Research Use only

## Handling

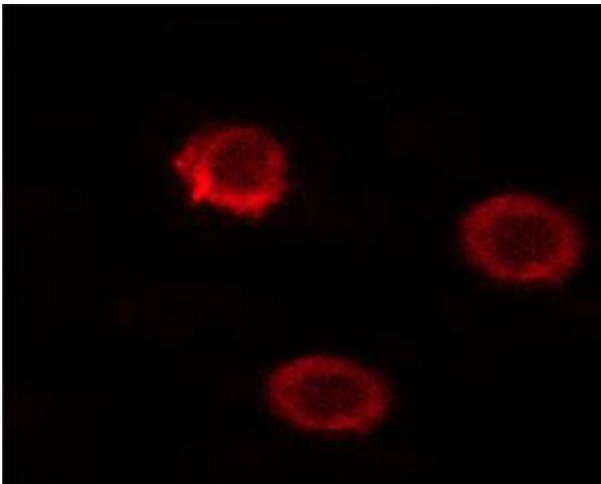
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Format:	Liquid
Concentration:	1 mg/mL
Buffer:	Rabbit IgG in phosphate buffered saline , pH 7.4, 150 mM NaCl, 0.02 % sodium azide and 50 % glycerol.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store at -20 °C. Stable for 12 months from date of receipt.
Expiry Date:	12 months



### Western Blotting

**Image 1.** Western blot analysis of CD45 phosphorylation expression in TNF treated HeLa whole cell lysates, The lane on the left is treated with the antigen-specific peptide.



### Immunofluorescence (fixed cells)

**Image 2.** ABIN6267339 staining HeLa cells by ICC/IF. Cells were fixed with PFA and permeabilized in 0.1% saponin prior to blocking in 10% serum for 45 minutes at 37°C. The primary antibody was diluted 1/400 and incubated with the sample for 1 hour at 37°C. A Alexa Fluor® 594 conjugated goat polyclonal to rabbit IgG (H+L), diluted 1/600 was used as secondary antibody.