

# Anti-CD45 (pY1216) Antibody

Rabbit polyclonal antibody to CD45 (pY1216)

Catalog # AP60918

## Product Information

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Application	WB
Primary Accession	<a href="#">P08575</a>
Other Accession	<a href="#">P06800</a>
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	147486

## Additional Information

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Gene ID	5788
Other Names	CD45; Receptor-type tyrosine-protein phosphatase C; Leukocyte common antigen; L-CA; T200; CD45
Target/Specificity	Recognizes endogenous levels of CD45 (pY1216) protein.
Dilution	WB~~WB (1/500 - 1/1000)
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

## Protein Information

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Name	PTPRC ( <a href="#">HGNC:9666</a> )
Synonyms	CD45
Function	<p>Protein tyrosine-protein phosphatase required for T-cell activation through the antigen receptor (PubMed:<a href="#">35767951</a>). 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). Interacts with CLEC10A at antigen presenting cell-T cell contact; CLEC10A on immature dendritic cells recognizes Tn antigen- carrying PTPRC/CD45 receptor on effector T cells and modulates T cell activation threshold to limit autoreactivity.</p> <p>Cell membrane; Single-pass type I membrane protein. Membrane raft.</p>

## Cellular Location

Synapse. Note=Colocalized with DPP4 in membrane rafts.

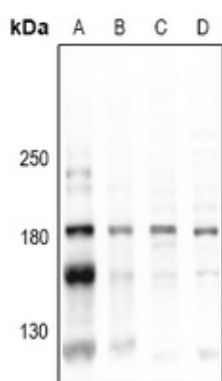
## Tissue Location

Isoform 1: Detected in thymocytes. Isoform 2: Detected in thymocytes.  
Isoform 3: Detected in thymocytes. Isoform 4: Not detected in thymocytes.  
Isoform 5: Detected in thymocytes. Isoform 6: Not detected in thymocytes.  
Isoform 7: Detected in thymocytes Isoform 8: Not detected in thymocytes.

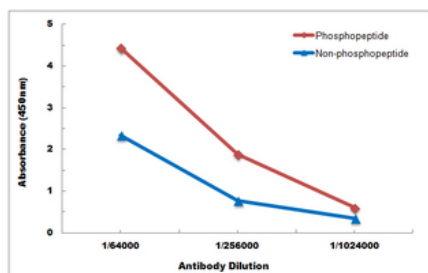
## Background

KLH-conjugated synthetic peptide encompassing a sequence within the C-term region of human CD45. The exact sequence is proprietary.

## Images



Western blot analysis of CD45 (pY1216) expression in HEK293T (A), MCF7 (B), PC12 (C), AML12 (D) whole cell lysates.



Direct ELISA antibody dose-response curve using Anti-CD45 (pY1216) Antibody. Antigen (phosphopeptide and non-phosphopeptide) concentration is 5 ug/ml. Goat Anti-Rabbit IgG (H&L) - HRP was used as the secondary antibody, and signal was developed by TMB substrate.

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