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**Product Name: CD45 Mouse Monoclonal Antibody****Catalog #: AMM85077**

For research use only.

**Summary**

<b>Description</b>	Mouse monoclonal Antibody
<b>Host</b>	Mouse
<b>Application</b>	WB,IHC,ICC
<b>Reactivity</b>	Human
<b>Conjugation</b>	Unconjugated
<b>Modification</b>	Unmodified
<b>Isotype</b>	Mouse IgG1
<b>Clonality</b>	Monoclonal
<b>Form</b>	Liquid
<b>Concentration</b>	1mg/ml
<b>Storage</b>	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
<b>Shipping</b>	Ice bags
<b>Buffer</b>	Purified antibody in PBS with 0.05% sodium azide,0.5%protective protein and 50% glycerol.
<b>Purification</b>	Affinity Purification

**Application**

<b>Dilution Ratio</b>	WB 1:500-1:1000,IHC 1:50-1:100,ICC 1:50-1:200
<b>Molecular Weight</b>	Calculated MW: 145 kDa; Observed MW: 145 kDa

**Antigen Information**

<b>Gene Name</b>	CD45
<b>Alternative Names</b>	GP180; L CA; CD45 antigen
<b>Gene ID</b>	19264.0
<b>SwissProt ID</b>	P08575
<b>Immunogen</b>	Synthetic Peptide of CD45

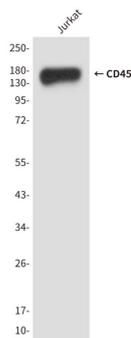
**Background**

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 .

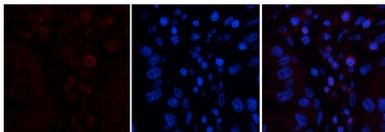
Dephosphorylates LYN, and thereby modulates LYN activity.

## Research Area

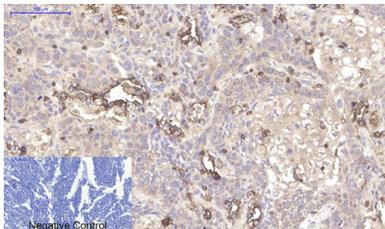
## Image Data



Western blot analysis of CD45 in Jurkat lysates using CD45 antibody.



Immunofluorescence analysis of CD45 in Human livercancer tissue using CD45 antibody(red),and DAPI (blue).



Immunohistochemical analysis of paraffin-embedded Human tonsils using CD45 antibody.High-pressure and temperature Sodium Citrate pH 6.0 was used for antigen retrieval.Negative control was used by secondary antibody only.