

For Research Use Only

# CD44 Polyclonal antibody

Catalog Number: 31981-1-AP



## Basic Information

**Catalog Number:**

31981-1-AP

**Source:**

Rabbit

**Isotype:**

IgG

**Immunogen Catalog Number:**

EG1458

**GenBank Accession Number:**

XM\_006234631.3

**GeneID (NCBI):**

25406

**UNIPROT ID:**

O70509

**Full Name:**

Cd44 molecule

**Calculated MW:**

40 kDa

**Observed MW:**

80-95 kDa

**Purification Method:**

Antigen affinity Purification

**Recommended Dilutions:**

WB: 1:500-1:2000

IF-P: 1:50-1:500

## Applications

**Tested Applications:**

WB, IF-P, ELISA

**Species Specificity:**

mouse, rat

**Positive Controls:**

WB : mouse spleen tissue, rat lung tissue, rat spleen tissue

IF-P : rat spleen tissue,

## Background Information

CD44 is a type I transmembrane glycoprotein expressed on embryonic stem cells and in various levels on other cell types including connective tissues and bone marrow. CD44 expression is also upregulated in subpopulations of cancer cells and is recognized as a molecular marker for cancer stem cells (PMID: 29747682). It is a cell-surface receptor that mediates cell-cell and cell-matrix interactions through its affinity for hyaluronic acid (HA) and possibly also through its affinity for other ligands (PMID: 10694938). Adhesion with HA plays an important role in cell migration, tumor growth and progression. CD44 is also involved in lymphocyte activation, recirculation and homing, and in hematopoiesis.

## Storage

**Storage:**

Store at -20°C. Stable for one year after shipment.

**Storage Buffer:**

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

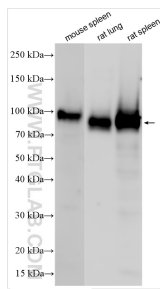
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E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

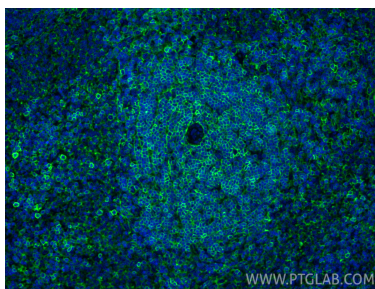
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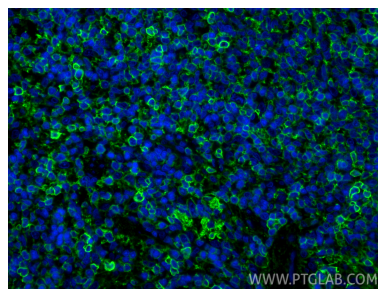
## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 31981-1-AP (CD44 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded rat spleen tissue using CD44 antibody (31981-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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