**CD44 Monoclonal ANTIBODY**

**Catalog Number:** 60224-1-Ig  
**Featured Product**  
**6 Publications**

### Basic Information

<table>
<thead>
<tr>
<th>Catalog Number:</th>
<th>GenBank Accession Number:</th>
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<tbody>
<tr>
<td>60224-1-Ig</td>
<td>BC004372</td>
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</tbody>
</table>

**Size:**
191 μg/150 μl

**Source:**
Mouse

**Isotype:**
IgG2a

**Purification Method:**
Protein A purification

**Immunogen Catalog Number:** AG7633

**GenID (NCBI):** 960

**Calculated MW:** 742aa, 82 kDa

**Observed MW:** 80-95 kDa

### Applications

**Tested Applications:**
FC, IF, IHC, WB, ELISA

**Cited Applications:**
FC, IF, IHC, WB

**Species Specificity:**
Human, Pig

### Background Information

CD44 is a type I transmembrane glycoprotein that mediates cell-cell and cell-matrix interactions through its affinity for hyaluronic acid (HA) and possibly also through its affinity for other ligands. 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. This protein exists in multiple forms (with molecular weight ranging from 16 kDa to over 200 kDa) generated by alternative RNA splicing and extensive post-translational modifications.

### Notable Publications

<table>
<thead>
<tr>
<th>Author</th>
<th>Pubmed ID</th>
<th>Journal</th>
<th>Application</th>
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<tbody>
<tr>
<td>Gang Zhao</td>
<td>29178480</td>
<td>Adv Healthc Mater</td>
<td>IF, FC</td>
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<tr>
<td>Chi Lu</td>
<td>25950300</td>
<td>Oncol Rep</td>
<td></td>
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<tr>
<td>Fan-Fei Kong</td>
<td>28625623</td>
<td>Biochem Biophys Res Commun</td>
<td>WB, IHC, IF</td>
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### Storage

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

**Storage Buffer:**
PBS with 0.02% sodium azide and 50% glycerol pH 7.3

**Aliquoting is unnecessary for -20°C storage**
Selected Validation Data

Western Blot result of CD44 antibody (60224-1-Ig, 1:4000) with si-Control and si-CD44 transfected HeLa cells.

HeLa cells were subjected to SDS PAGE followed by western blot with 60224-1-Ig (CD44 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.

Immunofluorescent analysis of (4%) PFA fixed human lung cancer tissue using 60224-1-Ig (CD44 antibody) at dilution of 1:100 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Mouse IgG(H+L).

Immunofluorescent analysis of MCF-7 cells using 60224-1-Ig (CD44 antibody) at dilution of 1:25 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Mouse IgG(H+L).

1X10^6 Raji cells were stained with 0.2ug CD44 antibody (60224-1-Ig, red) and control antibody (blue). Fixed with 4% PFA blocked with 3% BSA (30 min). FITC-Goat anti-mouse IgG with dilution 1:1000.

Immunofluorescent analysis of (4%) PFA fixed human lung cancer tissue using 60224-1-Ig (CD44 Antibody) at dilution of 1:400 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Mouse IgG(H+L).

Immunohistochemistry of paraffin-embedded human lung cancer tissue slide using 60224-1-Ig (CD44 Antibody) at dilution of 1:400 (under 10x lens), heat mediated antigen retrieved with Tris-EDTA buffer(pH6).

Immunohistochemistry of paraffin-embedded human lung cancer tissue slide using 60224-1-Ig (CD44 Antibody) at dilution of 1:400 (under 40x lens), heat mediated antigen retrieved with Tris-EDTA buffer(pH6).