CD44 Monoclonal Antibody

Catalog Number: 60224-1-Ig

Basic Information

Catalog Number: 60224-1-Ig
Size: 191 μg/150 μl
Source: Mouse
Isotype: IgG2a
Purification Method: Protein A purification
Immunogen Catalog Number: AG7633

GenBank Accession Number: BC004372
GeneID (NCBI): 960
Full Name: CD44 molecule (Indian blood group)
Calculated MW: 742aa, 82 kDa
Observed MW: 80-95 kDa

Recommended Dilutions:
- WB: 1:900-1:2000
- IHC: 1:50-1:500
- IF: 1:10-1:100

Applications

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

Cited Applications:
- FC, IF, IHC, WB

Species Specificity:
- human, pig

Notable Publications

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<th>Author</th>
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<tr>
<td>Gang Zhao</td>
<td>25178480</td>
<td>Adv. Healthc Mater</td>
<td>IF, FC</td>
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<td>Chi Lu</td>
<td>25953000</td>
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<td>Fan-Fei Kong</td>
<td>28625923</td>
<td>Biochem Biophys Res Commun</td>
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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.

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.

For technical support and original validation data for this product please contact:
- T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
- E: proteintech@ptglab.com
- W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.
Selected Validation Data

WB 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.

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 (pH 9).

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 (pH 9).