9853 Pacific Heights Blvd.
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# 10-6555: Mouse Monoclonal Antibody to CD44 (Clone: Hermes-3)(Discontinued)

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|---|---|
| **Clonality :** | Monoclonal |
| **Clone Name :** | Hermes-3 |
| **Application :** | WB,IF |
| **Reactivity :** | Human |
| **Gene :** | CD44 |
| **Gene ID :** | 960 |
| **Uniprot ID :** | P16070 |
| **Format :** | Purified |
| **Alternative Name :** | CD44 antigen, CDw44, Epican, Extracellular matrix receptor III, ECMR-III, GP90 lymphocyte homing/adhesion receptor, HUTCH-I, Heparan sulfate proteoglycan, Hermes antigen, Hyaluronate receptor, Phagocytic glycoprotein 1, PGP-1, Phagocytic glycoprotein I, PGP-I, CD44, CD44, LHR, MDU2, MDU3, MIC4 |
| **Isotype :** | Mouse IgG2a ,Kappa |

## Description

The protein encoded by this gene is a cell-surface glycoprotein involved in cell-cell interactions, cell adhesion and migration. It is a receptor for hyaluronic acid (HA) and can also interact with other ligands, such as osteopontin, collagens, and matrix metalloproteinases (MMPs). This protein participates in a wide variety of cellular functions including lymphocyte activation, recirculation and homing, hematopoiesis, and tumor metastasis. Transcripts for this gene undergo complex alternative splicing that results in many functionally distinct isoforms, however, the full length nature of some of these variants has not been determined. Alternative splicing is the basis for the structural and functional diversity of this protein, and may be related to tumor metastasis.

## Product Info

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| **Amount :** | 80 µl / 400 µl |
| **Purification :** | Protein G Chromatography |
| **Content :** | Purified monoclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. |
| **Storage condition :** | Maintain refrigerated at 2-8°C for up to 2 weeks. For long term store at -20°C in small aliquots to prevent freeze-thaw cycles. |

## Application Note

WB~1:2000|| IHC-P~1:10~50|| IF~1:10~50

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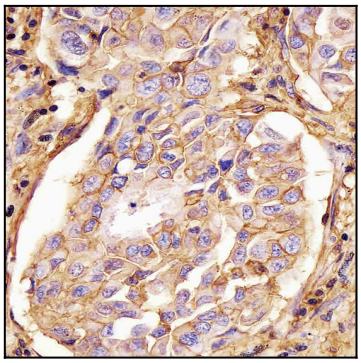


Figure 1: Staining of CD44 antibody (10-6555) in human lung adenocarcinoma tissue sections by Immunohistochemistry (IHC-P - paraformaldehyde-fixed, paraffin-embedded sections). Tissue was fixed with formaldehyde and blocked with 3% BSA for 0. 5 hour at room temperature; antigen retrieval was by heat mediation with a citrate buffer (pH6). Samples were incubated with primary antibody (1/25) for 1 hours at 37°C. A undiluted biotinylated goat polyvalent antibody was used as the secondary antibody.

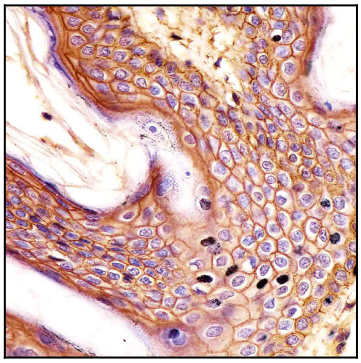


Figure 2: Staining of CD44 antibody (10-6555) in human skin tissue sections by Immunohistochemistry (IHC-P - paraformaldehyde-fixed, paraffin-embedded sections). Tissue was fixed with formaldehyde and blocked with 3% BSA for 0. 5 hour at room temperature; antigen retrieval was by heat mediation with a citrate buffer (pH6). Samples were incubated with primary antibody (1/25) for 1 hours at 37°C. A undiluted biotinylated goat polyvalent antibody was used as the secondary antibody.

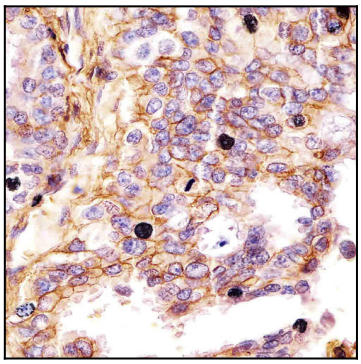


Figure 3: Staining of CD44 antibody (10-6555) in human lung adenocarcinoma tissue sections by Immunohistochemistry (IHC-P - paraformaldehyde-fixed, paraffin-embedded sections). Tissue was fixed with formaldehyde and blocked with 3% BSA for 0. 5 hour at room temperature; antigen retrieval was by heat mediation with a citrate buffer (pH6). Samples were incubated with primary antibody (1/25) for 1 hours at 37°C. A undiluted biotinylated goat polyvalent antibody was used as the secondary antibody

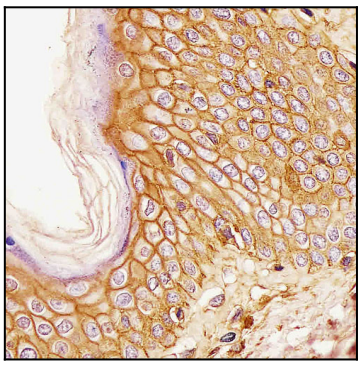


Figure 4: Staining of CD44 antibody (10-6555) in human skin tissue sections by Immunohistochemistry (IHC-P - paraformaldehyde-fixed, paraffin-embedded sections). Tissue was fixed with formaldehyde and blocked with 3% BSA for 0. 5 hour at room temperature; antigen retrieval was by heat mediation with a citrate buffer (pH6). Samples were incubated with primary antibody (1/25) for 1 hours at 37°C. A undiluted biotinylated goat polyvalent antibody was used as the secondary antibody.

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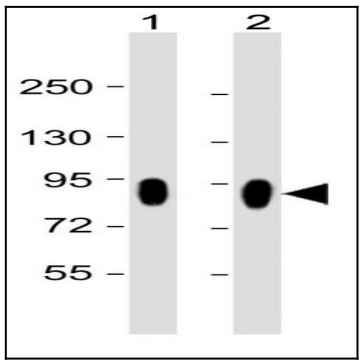



Figure 5: All lanes : Anti-CD44 Antibody (10-6555) at 1:2000 dilution with Lane 1: Hela whole cell lysate and Lane 2: HUVEC whole cell lysates/proteins at 20 µg per lane. Secondary Goat Anti-mouse IgG (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 82 kDa.

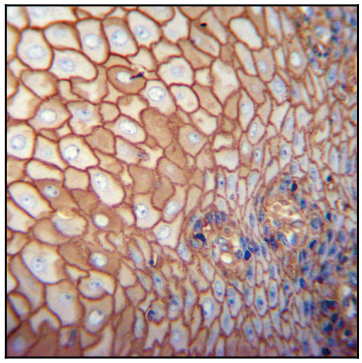


Figure 6: Immunohistochemistry analysis of CD44 antibody (10-6555) in formalin fixed and paraffin embedded human esophagus carcinoma followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the CD44 antibody for immunohistochemistry. Clinical relevance has not been evaluated

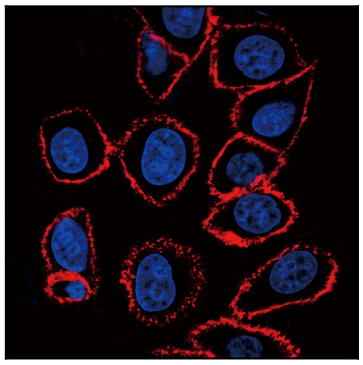


Figure 7: Confocal immunofluorescent analysis of CD44 antibody (10-6555) with hela cell. 0.01 mg/ml primary antibody was followed by PE-conjugated goat anti-mouse IgG (whole molecule). PE emits red fluorescence. DAPI was used to stain the cell nuclear (blue).

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