

# **Product datasheet for CF506725**

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## **CD44 Mouse Monoclonal Antibody [Clone ID: OTI1E3]**

#### **Product data:**

**Product Type:** Primary Antibodies

Clone Name: OTI1E3

**Applications:** FC, IHC, WB

**Recommended Dilution:** WB 1:400~8000, IHC 1:150, IF 1:100, FLOW 1:50

Reactivity: Human
Host: Mouse
Isotype: IgG1

Clonality: Monoclonal

Immunogen: Full length human recombinant protein of human CD44(NP\_000601) produced in HEK293T

cell

Formulation: Lyophilized powder (original buffer 1X PBS, pH 7.3, 8% trehalose)

**Reconstitution Method:** For reconstitution, we recommend adding 100uL distilled water to a final antibody

concentration of about 1 mg/mL. To use this carrier-free antibody for conjugation experiment, we strongly recommend performing another round of desalting process. (OriGene recommends Zeba Spin Desalting Columns, 7KMWCO from Thermo Scientific)

**Purification:** Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography

(protein A/G)

Conjugation: Unconjugated

**Storage:** Store at -20°C as received.

**Stability:** Stable for 12 months from date of receipt.

Predicted Protein Size: 79.2 kDa

**Gene Name:** CD44 molecule (Indian blood group)

Database Link: NP 000601

Entrez Gene 960 Human

P16070





Background:

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. [provided by RefSeq, Jul 2008]

Synonyms:

CDW44; CSPG8; ECMR-III; HCELL; HUTCH-I; IN; LHR; MC56; MDU2; MDU3; MIC4; Pgp1

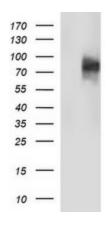
**Protein Families:** 

Adult stem cells, Cancer stem cells, Druggable Genome, Embryonic stem cells, ES Cell Differentiation/IPS, Stem cell relevant signaling - DSL/Notch pathway, Transmembrane

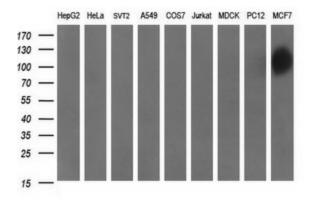
**Protein Pathways:** 

ECM-receptor interaction, Hematopoietic cell lineage

## **Product images:**

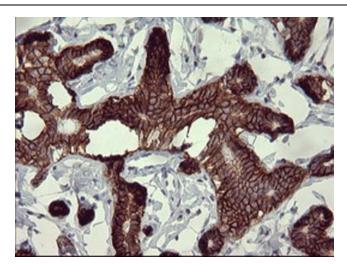


HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY CD44 ([RC221771], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-CD44. Positive lysates [LY400203] (100ug) and [LC400203] (20ug) can be purchased separately from OriGene.

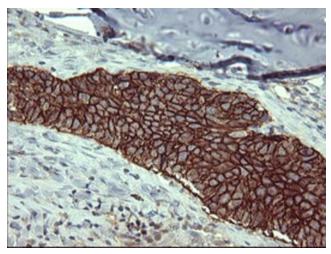


Western blot analysis of extracts (35ug) from 9 different cell lines by using anti-CD44 monoclonal antibody (HepG2: human; HeLa: human; SVT2: mouse; A549: human; COS7: monkey; Jurkat: human; MDCK: canine; PC12: rat; MCF7: human).

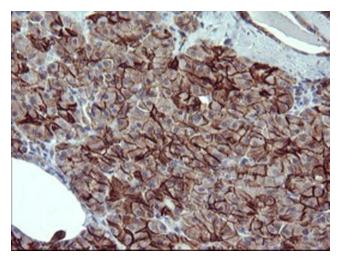




Immunohistochemical staining of paraffinembedded Human breast tissue within the normal limits using anti-CD44 mouse monoclonal antibody. ([TA506725]; heat-induced epitope retrieval by 1mM EDTA in 10mM Tris, pH8.5, 120°C for 3min)

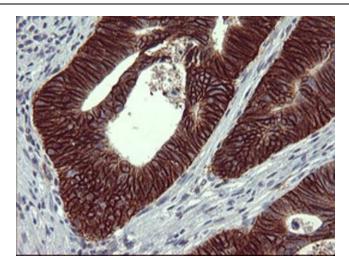


Immunohistochemical staining of paraffinembedded Carcinoma of Human lung tissue using anti-CD44 mouse monoclonal antibody. ([TA506725]; heat-induced epitope retrieval by 1mM EDTA in 10mM Tris, pH8.5, 120°C for 3min)

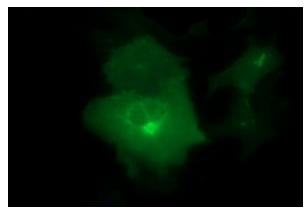


Immunohistochemical staining of paraffinembedded Human pancreas tissue within the normal limits using anti-CD44 mouse monoclonal antibody. ([TA506725]; heat-induced epitope retrieval by 1mM EDTA in 10mM Tris, pH8.5, 120°C for 3min)

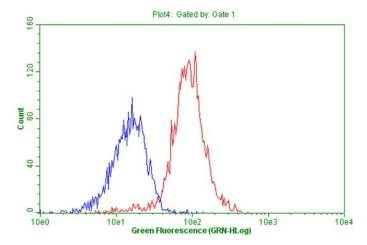




Immunohistochemical staining of paraffinembedded Carcinoma of Human pancreas tissue using anti-CD44 mouse monoclonal antibody. ([TA506725]; heat-induced epitope retrieval by 1mM EDTA in 10mM Tris, pH8.5, 120°C for 3min)



Anti-CD44 mouse monoclonal antibody ([TA506725]) immunofluorescent staining of COS7 cells transiently transfected by pCMV6-ENTRY CD44 ([RC221771]).



Flow cytometric Analysis of living Colo205 cells, using anti-CD44 antibody ([TA506725]), (Red), compared to a nonspecific negative control antibody, (Blue).