

Anti-CD44 antigen CD44 Antibody

Catalog Number: PA1021-1

About CD44

The CD44 gene, which is a transmembrane protein, is expressed as a family of molecular isoforms generated from alternative RNA splicing and posttranslational modifications. The gene, which contains 19 exons spanning some 50 kb of genomic DNA, is a widely expressed integral membrane protein that acts as a receptor for hyaluronan (HA) and is important to cell-extracellular matrix interaction. CD44 binding with HA can play an important role in cellular aggregation and tumor cell growth. CD44 is necessary for limb development and functions in a novel growth factor presentation mechanism. A specific CD44 splice variant is crucial for the proliferation of these mesenchymal cells. CD44 glycoproteins are involved in leukocyte extravasation but also in the regulation of growth factor activation, stability, and signaling. Moreover, it plays a pivotal role in arteriogenesis.

Overview

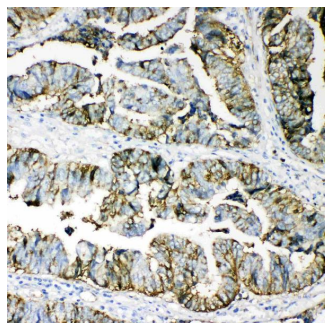
Product Name	Anti-CD44 antigen CD44 Antibody
Reactive Species	Human, Rat
Description	Boster Bio Anti-CD44 antigen CD44 Antibody catalog # PA1021-1. Tested in IHC, ICC applications. This antibody reacts with Human, Rat.
Conjugate	FITC
Application	IHC, ICC
Clonality	Monoclonal BAM-10
Formulation	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg Thimerosal, 0.05mg NaN ₃ .
Storage Instructions	The product should be stored undiluted at 4°C and should be protected from prolonged exposure to light. Do not freeze.
Host	Hamster
Uniprot ID	P16070

Technical Details

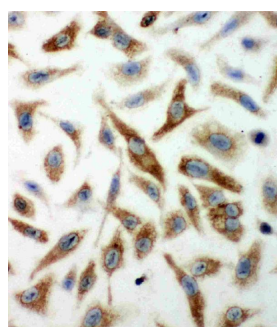
Immunogen	A synthetic peptide corresponding to a sequence at the N-terminus of human CD44, different from the related rat sequence by three amino acids.
Predicted Reactive Species	Hamster
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (SV0002-1) for IHC(P) and ICC..
Cross Reactivity	No cross reactivity with other proteins

Form	Lyophilized
Concentration	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Purification	Immunogen Affinity Purified
Suggested Dilutions	<p>Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.</p> <p>If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.</p> <p>Some PubMed article(s) citing the expression level of this target are as follows:</p> <p>Boster Bio's internal QC testing used:</p> <p>Immunocytochemistry , 0.5-1ug/ml, Human, -</p> <p>Immunohistochemistry (Paraffin-embedded Section), 0.5-1ug/ml, Human, Rat, By Heat</p>

Anti-CD44 antigen CD44 Antibody (PA1021-1) Images



Anti-CD44 antibody, PA1021-1, IHC(P)
IHC(P): Human Intestinal Cancer Tissue



Anti-CD44 antibody, PA1021-1, ICC
ICC: HELA Cell

18 Publications Citing This Product

1. PubMed ID: 27073479, CD44 promotes the migration of bone marrow-derived mesenchymal stem cells toward glioma
2. PubMed ID: 20043050, Li B, Chu X, Gao M, Li W. Acta Biochim Biophys Sin (Shanghai). 2010 Jan;42(1):80-9. Apoptotic Mechanism Of MCF-7 Breast Cells In Vivo And In Vitro Induced By Photodynamic Therapy With C-Phycocyanin.
3. PubMed ID: 24962764, Du G, Liu Y, Dang M, Zhu G, Su R, Fan Y, Tan Z, Wang Lx, Fang J. Acta Histochem. 2014 Jul;116(6):1075-84. Doi: 10.1016/J.Acthis.2014.05.002. Epub 2014 Jun 21. Comparison Of Administration Routes For Adipose-Derived Stem Cells In The Treatment Of M...

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