



# CD44 (ABT132R) Rabbit mAb (Ready to Use)

<b>Catalog No</b>	YP-rAb-18141
<b>Isotype</b>	IgG
<b>Reactivity</b>	Human
<b>Applications</b>	IHC
<b>Gene Name</b>	CD44
<b>Protein Name</b>	CD44
<b>Purification Process</b>	Protein A
<b>Specificity</b>	This antibody detects endogenous levels of CD44
<b>Formulation</b>	The prediluted ready-to-use antibody is diluted in phosphate buffer saline containing stabilizing protein and 0.05% Proclin 300
<b>Source</b>	Monoclonal, Rabbit,IgG
<b>Dilution</b>	Ready to use for IHC Note: For IHC, we suggest antigen retrieval with TE buffer pH 9.0
<b>Concentration</b>	0.5 mg/ml
<b>Purity</b>	≥90%
<b>Storage Stability</b>	2° C to 8° C/1 year,Ship by ice bag
<b>Synonyms</b>	LHR ; BA-1 ; CD 44 ; CD44 ; CD44 antigen ; CD44 molecule (Indian blood group) ; CD44 molecule ; CD44_HUMAN ; CDW44 ; CDW44 antigen ; Cell surface glycoprotein CD44 ; chondroitin sulfate proteoglycan 8 ; CSPG8 ; ECMR-III ; Epican ; Extracellular matrix receptor III ; GP90 lymphocyte homing/adhesion receptor ; HCELL ; hematopoietic cell E- and L-selectin ligand ; Heparan sulfate proteoglycan ; Hermes antigen ; homing function and Indian blood group system ; HSA ; HUTCH-I ; HUTCH1 ; HUTCHI ; Hyaluronate receptor ; IN ; INLU-related p80 Glycoprotein ; MC56 ; MDU2 ; MDU3 ; MGC10468 ; MIC4 ; MUTCH I ; MUTCH1 ; PGP-1 ; PGP-I ; PGP1 ; Phagocytic glycoprotein 1 ; Phagocytic glycoprotein I ; Soluble CD44
<b>Observed Band</b>	
<b>Calculated Molecular Weight</b>	
<b>Cell Pathway</b>	Membranous
<b>Tissue Specificity</b>	Isoform 10 (epithelial isoform) is expressed by cells of epithelium and highly expressed by carcinomas. Expression is repressed in neuroblastoma cells.

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**Function**

alternative products: Additional isoforms seem to exist. Additional isoforms are produced by alternative splicing of 10 out of 19 exons within the extracellular domain. Additional diversity is generated through the utilization of internal splice donor and acceptor sites within 2 of the exons. A variation in the cytoplasmic domain was shown to result from the alternative splicing of 2 exons. Isoform CD44 is expected to be expressed in normal cells. Splice variants have been found in many tumor cell lines. Exons 5, 6, 7, 8, 9, 10, 11, 13, 14 and 19 are alternatively spliced. Experimental confirmation may be lacking for some isoforms.

**function:** Receptor for hyaluronic acid (HA). Mediates cell-cell and cell-matrix interactions through its affinity for HA, and possibly also through its affinity for other ligands such as osteopontin, collagens, and matrix metalloproteinases (MMPs). Adhesion with HA plays an important role in cell migration, tumor growth and progression. Also involved in lymphocyte activation, recirculation and homing, and in hematopoiesis. Altered expression or dysfunction causes numerous pathogenic phenotypes. Great protein heterogeneity due to numerous alternative splicing and post-translational modification events.

**online information:** Blood group antigen gene mutation database, online information: CD44 entry, polymorphism: CD44 is responsible for the Indian blood group system. The molecular basis of the In(A)=In1/In(B)=In2 blood group antigens is a single variation in position 46; In(B), the most frequent allele, has Arg-46.

**PTM:** N-glycosylated; O-glycosylated; contains more-or-less-sulfated chondroitin sulfate glycans, whose number may affect the accessibility of specific proteinases to their cleavage site(s); Phosphorylated; activation of PKC results in the dephosphorylation of Ser-706 (constitutive phosphorylation site), and the phosphorylation of Ser-672; Proteolytically cleaved in the extracellular matrix by specific proteinases (possibly MMPs) in several cell lines and tumors.

**similarity:** Contains 1 Link domain.

**subunit:** Interacts with HA, as well as other glycosaminoglycans, collagen, laminin, and fibronectin via its N-terminal segment. Interacts with ANK, the ERM proteins (VIL2, RDX and MSN), and NF2 via its C-terminal segment.

**tissue specificity:** An epithelial isoform (CD44E) is expressed by cells of epithelium and highly expressed by carcinomas. An hematopoietic isoform (CD44H) is expressed by cells of mesodermal origin. Expression is repressed in neuroblastoma cells.

**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],

**matters needing attention**

Avoid repeated freezing and thawing!

**Usage suggestions**

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

