

# Product datasheet

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# ARG22897 anti-CD44 antibody [CVS18]

Package: 50 μg Store at: -20°C

### **Summary**

Product Description Mouse Monoclonal antibody [CVS18] recognizes CD44

Mouse anti Horse CD11a/CD18 antibody, clone CVS18 recognizes equine CD44, a plasma membrane glycoprotein broadly expressed on the cell surface of leucocytes. CD44 is the primary receptor for hyaluronate and functions in cell adhesion. Equine CD44 is widely expressed and Mouse anti Horse

CD11a/CD18 antibody, clone CVS18 may be used as a pan equine leucocyte marker.

Tested Reactivity Hrs

Tested Application FACS, IHC-Fr

Host Mouse

Clonality Monoclonal

Clone CVS18
Isotype IgG1

Target Name CD44

Species Horse

Immunogen Equine leucocytes.

Conjugation Un-conjugated

Alternate Names MDU2; MDU3; GP90 lymphocyte homing/adhesion receptor; Hermes antigen; Extracellular matrix

receptor III; PGP-I; Epican; CDW44; Phagocytic glycoprotein 1; Pgp1; HUTCH-I; MC56; Hyaluronate receptor; CD antigen CD44; Heparan sulfate proteoglycan; CD44 antigen; LHR; IN; HCELL; Phagocytic

glycoprotein I; PGP-1; CSPG8; MIC4; ECMR-III; CDw44

## **Application Instructions**

Application table	Application	Dilution
	FACS	Neat
	IHC-Fr	Assay-dependent
Application Note	FACS: Use 10 $\mu$ l of the suggested working dilution to label 10^6 cells in 100 $\mu$ l. * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

#### **Properties**

Form Liquid

Purification Purification with Protein G.

Buffer Tissue Culture Supernatant and 0.09% Sodium azide

Preservative 0.09% Sodium azide

Concentration 1 mg/ml

Storage instruction

For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Note

For laboratory research only, not for drug, diagnostic or other use.

#### **Bioinformation**

Gene Symbol

CD44

Gene Full Name

CD44 molecule (Indian blood group)

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]

**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. In cancer cells, may play an important role in invadopodia formation. 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. [UniProt]

Research Area

Cancer antibody; Developmental Biology antibody; Immune System antibody; Chondrogenesis Study antibody

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Calculated Mw

82 kDa

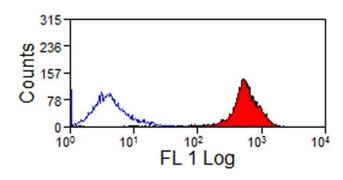
PTM

Proteolytically cleaved in the extracellular matrix by specific proteinases (possibly MMPs) in several cell lines and tumors.

N- and O-glycosylated. O-glycosylation contains more-or-less-sulfated chondroitin sulfate glycans, whose number may affect the accessibility of specific proteinases to their cleavage site(s). It is uncertain if O-glycosylation occurs on Thr-637 or Thr-638.

Phosphorylated; activation of PKC results in the dephosphorylation of Ser-706 (constitutive phosphorylation site), and the phosphorylation of Ser-672.

#### **Images**



#### ARG22897 anti-CD44 antibody [CVS18] FACS image

Flow Cytometry: Equine peripheral blood lymphocytes stained with ARG22897 anti-CD44 antibody [CVS18], followed by Goat anti Mouse IgG (FITC).