

## Anti-CD44 [Hermes-1] Standard Size Ab00628-10.0

This chimeric human antibody was made using the variable domain sequences of the original Rat IgG2a format, for improved compatibility with existing reagents, assays and techniques.

**Isotype and Format:** Human IgG1, Kappa

**Clone Number:** Hermes-1

**Alternative Name(s) of Target:** 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; CD44/H-CAM antibody; Hermes 1

**UniProt Accession Number of Target Protein:** P16070

**Published Application(s):** Blocking, ICC/IF, IP, Neut, WB, ELISA, FC, IHC

**Published Species Reactivity:** Human, Mouse, Rat, Goat, Primate, Rabbit, Sheep, Bovine

**Immunogen:** This antibody was produced by immunizing a Fischer rat with human tonsil lymphocytes ( $10^7$  cells intraperitoneally in Freund's complete adjuvant). A boost was given 2 weeks later (intravascularly in saline).

**Specificity:** This antibody is specific for CD44 (gp90 epitope cluster I), which is selectively expressed on normal or transformed lymphoid cells that are able to recognize and bind to high endothelial venules (specialized vessels that mediate lymphocyte exit from the blood into lymphoid organs). Although this antibody was raised against human CD44, it cross-reacts with murine, rat, rabbit, primate, sheep, bovine and goat CD44.

**Application Notes:** This antibody binds CD44, so can be used to label CD44+ cells in flow cytometry analysis. As CD44 molecules are used to bind to high endothelial venules (HEV) at the site of lymphocyte entry to lymphoid organs, this antibody can be used to specifically stain HEV-binding cell lines (Jalkanen, 1986). In addition, this antibody blocks the adhesion of the haematopoietic progenitor cell line KG1 to hyaluronic acid (Bendall, 2003), but does not block lymphocyte binding to HEV (Picker, 1989). 7H9D6 partially blocks the binding of this antibody.

**Antibody First Published in:** Jalkanen et al. A lymphoid cell surface glycoprotein involved in endothelial cell recognition and lymphocyte homing in man. Eur J Immunol. 1986 Oct;16(10):1195-202. [PMID:2429846](#)

**Note on publication:** Describes the original use of this antibody in preliminary attempts to characterise its ligand (CD44), using IHC-fr, IP and IF.

## Product Form

**Size:** 200 µg Purified antibody.

**Purification:** Protein A affinity purified

**Supplied In:** PBS with 0.02% Proclin 300.

**Storage Recommendation:** Store at 4°C for up to 3 months. For longer storage, aliquot and store at -20°C.

**Concentration:** 1 mg/ml.

Important note – This product is for research use only. It is not intended for use in therapeutic or diagnostic procedures for humans or animals.