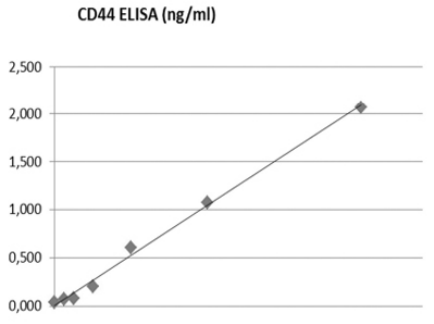
CD44 (Human) ELISA Kit

Catalog # KA3852 Size 1 Kit

Applications



The standard curve is for the purpose of demonstration only and should not be used to calculate unknowns. A standard curve should be generated each time the assay is performed.

Specification

Product Description	CD44 (Human) ELISA Kit is a solid phase sandwich ELISA for the in-vitro qualitative and quantitative determination of soluble CD44 (CD44/phagocytic glycoprotein-1/Pgp-1) in supernatants, buffered so lutions or serum and plasma samples. This assay will recognise both natural and recombinant human CD44.
Suitable Sample	Cell Culture Supernatant, Human Plasma, Serum or other biological samples.
Sample Volume	100 uL
Label	HRP-conjugated
Detection Method	Colorimetric
Assay Type	Qualitative and Quantitative
Calibration Range	0.31 to 10 ng/mL
Limit of Detection	0.113 ng/mL
Reactivity	Human
Regulation Status	For research use only (RUO)

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Quality Control Testing	Standard curve The standard curve is for the purpose of demonstration only and should not be used to calculate unkn owns. A standard curve should be generated each time the assay is performed.
Storage Instruction	Store the kit at 4°C.

Applications

- Quantification

Gene Info — CD44

Entrez GeneID	960
Gene Name	CD44
Gene Alias	CDW44, CSPG8, ECMR-III, HCELL, IN, LHR, MC56, MDU2, MDU3, MGC10468, MIC4, MUTCH -I, Pgp1
Gene Description	CD44 molecule (Indian blood group)
Omim ID	107269
Gene Ontology	Hyperlink
Gene Summary	The protein encoded by this gene is a cell-surface glycoprotein involved in cell-cell interactions, ce ll adhesion and migration. It is a receptor for hyaluronic acid (HA) and can also interact with other l igands, such as osteopontin, collagens, and matrix metalloproteinases (MMPs). This protein parti cipates in a wide variety of cellular functions including lymphocyte activation, recirculation and ho ming, hematopoiesis, and tumor metastasis. Transcripts for this gene undergo complex alternativ e 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 fu nctional diversity of this protein, and may be related to tumor metastasis. [provided by RefSeq
Other Designations	CD44 antigen|CD44 antigen (homing function and Indian blood group system)|CDW44 antigen|G P90 lymphocyte homing/adhesion receptor|Hermes antigen|antigen gp90 homing receptor|cell ad hesion molecule|cell surface glycoprotein CD44|chondroitin sulfate proteogl

Publication Reference

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- Digging into the Solubility Factor in Cancer Diagnosis: A Case of Soluble CD44 Protein.

  Zhuldyz Myrkhiyeva, Marzhan Nurlankyzy, Kulzhan Berikkhanova, Zhanas Baimagambet, Aidana Bissen, Nurzhan Bikhanov, Christabel K L Tan, Daniele Tosi, Zhannat Ashikbayeva, Aliya Bekmurzayeva.

  Biosensors 2025 Dec; 15(12):796.

  Application: ELISA, Quant, Human, Various biological fluids

- Label-free fiber-optic spherical tip biosensor to enable picomolar-level detection of CD44 protein.

  Aliya Bekmurzayeva, Zhannat Ashikbayeva, Zhuldyz Myrkhiyeva, Aigerim Nugmanova, Madina Shaimerdenova, Takhmina Ayupova, Daniele Tosi.

  Scientific Reports 2021 Oct; 11(1):19583.

  Application: Quant, Human, Human serum

Pathway

- ECM-receptor interaction
- Hematopoietic cell lineage

Disease

- Arthritis
- Breast Neoplasms
- Cardiovascular Diseases
- Cleft Lip
- Cleft Palate
- Craniofacial Abnormalities
- Diabetes Mellitus
- Edema
- Genetic Predisposition to Disease
- Head and Neck Neoplasms
- Heart Defects
- Hepatitis B

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- Kidney Failure
- Mouth Abnormalities
- Neoplasm Recurrence
- Neoplasms
- Ovarian Neoplasms

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