

Human CD171/L1CAM ELISA Kit | CD171/L1CAM elisa kit

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CATALOG #
AAA258333

REACTIVITY
Human

PRODUCT SYNONYMS

CD171/L1CAM; Human CD171/L1CAM ELISA Kit; L1CAM ELISA Kit; Human; L1 cell adhesion molecule; CAML1 ELISA Kit; CD171 ELISA Kit; HSAS ELISA Kit; HSAS1 ELISA Kit; MASA ELISA Kit; MIC5 ELISA Kit; N-CAM-L1 ELISA Kit; N-CAML1 ELISA Kit; NCAM-L1 ELISA Kit; S10 ELISA Kit; SPG1 ELISA Kit; CD171/L1CAM elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	For the quantitative determination of Human CD171/L1CAM concentration in serum.
Assay Type	Solid Phase Sandwich ELISA (quantitative)
Sample Types	Serum
Detection Range	39.06-2500pg/mL
Sensitivity	8.31pg/mL
Conjugation	HRP
Materials Provided	1. 96 well microplate coated with Capture Antibody 2. Detection Antibody conjugated to HRP 3. Standards 4. Wash Buffer Concentrate 5. Dilution Buffer Concentrate 6. Color Reagent A 7. Color Reagent B 8. Stop Solution

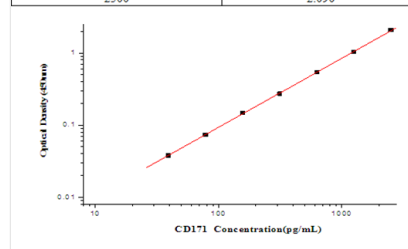
IMAGES

Recombinant human			
IL-1	IL-2	IL-33	IL-10
IL-8	TNF- α	IL-4	IL-6
IFN- γ	MIP-1 β	TIMP-1	TIMP-2
GM-CSF	SCF	PDGF	VEGF

Application Data

This assay recognizes both recombinant and natural Human CD171. The factors listed below were prepared at 50ng/mL in dilution buffer and assayed for cross-reactivity. No cross-reactivity was observed.

Concentration (pg/mL)	Zero standard subtracted OD
0	0
39.06	0.038
78.12	0.073
156.25	0.149
312.5	0.273
625	0.537
1250	1.028
2500	2.090



Standard Curve (Sample)

This standard curve is only for demonstration purposes. A standard curve should be generated for each assay.

ADDITIONAL INFORMATION

Related Product Information for CD171/L1CAM elisa kit	This L1CAM ELISA Kit, Human is an enzyme-linked immunosorbent assay for the quantitative measurement of Human L1CAM protein in Serum. It contains recombinant Human L1CAM, and antibodies raised against the recombinant protein. This ELISA kit is complete and ready-to-use. Background: L1 cell adhesion molecule (L1CAM), also designated as CD171, is a cell adhesion receptor of the immunoglobulin superfamily, known for its roles in nerve cell function. While originally believed to be present only in brain cells, in recent years L1-CAM has been detected in other tissues, and a variety of cancer cells, including some common types of human cancer. L1CAM interacts with a variety of ligands including axonin-1, CD9, neurocan, and integrins, and it has been revealed that the RGD motif in the sixth Ig domain of L1CAM is a binding site for integrins, thus important for nuclear signaling. Disruption of L1CAM function causes three X-linked neurological syndromes, i.e. hydrocephalus, MASA syndrome (mental retardation, aphasia, shuffling gait, and adducted thumbs), and spastic paraplegia syndrome. Overexpression of L1CAM in normal and cancer cells increased motility, enhanced growth rate, and promoted cell transformation and tumorigenicity. Recent work has identified L1CAM (CD171) as a novel marker for human carcinoma progression, and a candidate for anti-cancer therapy.
References	Meier F, et al. (2006) The adhesion molecule L1 (CD171) promotes melanoma progression. Int J Cancer. 119(3): 549-55. Gavert N, et al. (2008) L1-CAM in cancerous tissues. Expert Opin Biol Ther. 8(11): 1749-57. Issa Y, et al. (2009) Enhanced L1CAM expression on pancreatic tumor endothelium mediates selective tumor cell transmigration. J Mol Med. 87(1): 99-112. Weidle UH, et al. (2009) L1-CAM as a target for treatment of cancer with monoclonal antibodies. Anticancer Res. 29(12): 4919-31. Raveh S, et al. (2009) L1 cell adhesion molecule (L1CAM) in invasive tumors. Cancer Lett. 282(2): 137-45. Wolterink S, et al. (2010) Therapeutic antibodies to human L1CAM: functional characterization and application in a mouse model for ovarian carcinoma. Cancer Res. 70(6): 2504-15.

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.