

Human Carbonic Anhydrase IX CLIA Kit | CA9 clia kit

Carbonic Anhydrase IX (Human) LumiAb ELISA Kit

CATALOG #
AAA318601

REACTIVITY
Human

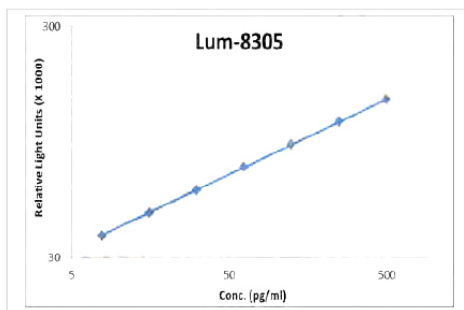
PRODUCT SYNONYMS

Carbonic Anhydrase IX; Carbonic Anhydrase IX (Human) LumiAb ELISA Kit; Human Carbonic Anhydrase IX; Carbonic anhydrase 9; Carbonate dehydratase IX; CAIX; Membrane antigen MN; P54/58N; Renal cell carcinoma-associated antigen G4-250; pMW1; G4-250; MN; CA9 clia kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	The LumiAb Human BMP-2 ELISA is capable of recognizing both recombinant and naturally produced Human BMP-2 proteins. The antigens listed below were tested at 50 ng/ml and exhibited less than 10% cross reactivity.
Sequence Length	459
Assay Type	Quantitative Sandwich
Sensitivity	8 pg/ml.
Preparation and Storage	Store at 4 degree C for 6 months.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for CA9 clia kit	Principle of the Assay: The LumiAb Human BMP-2 Chemiluminescent ELISA Kit contains the components necessary for quantitative determination of natural or recombinant Human BMP-2 concentrations within any experimental sample including cell lysates, serum and plasma. This particular immunoassay utilizes the quantitative technique of a "Sandwich" Enzyme-Linked Immunosorbent Assay (ELISA) where the target protein (antigen) is bound in a "sandwich" format by the primary capture antibodies coated to each well-bottom and the secondary detection antibodies added subsequently by the investigator. The capture antibodies coated to the bottom of each well are specific for a particular epitope on Human BMP-2 while the user-added detection antibodies bind to epitopes on the captured target protein. Amid each step of the procedure, a series of wash steps must be performed to ensure the elimination of non-specific binding between proteins to other proteins or to the solid phase. After incubation and "sandwiching" of the target antigen, a peroxidase enzyme is conjugated to the constant heavy chain of the secondary antibody (either covalently or via Avidin/Streptavidin-Biotin interactions), allowing for a sensitive luminescent reaction to ensue upon substrate addition. When the Peroxide Enhancer solution is added, the reaction catalyzed by peroxidase yields light that is representative of the antigen concentration. After a brief incubation, the microplate can be read with a luminometer, allowing for generation of a standard curve and subsequent determination of protein concentration!!Background/Introduction: Human BMP-2, also known as Bone Morphogenetic Protein 2, is a 396 amino acid cytokine protein implicated in the induction of cartilage and bone formation. The protein expressed from the BMP2 gene at locus 20p12 on chromosome 20 belongs to the Transforming Growth Factor beta (TGFbeta) superfamily. After initial translation of the peptide, it is subject to proteolytic processing and cleavage, which results in the separation of the 23 residue signal sequence from the 259 residue pro-peptide and 114 residue mature BMP-2 cytokine. The encoded protein acts as a disulfide-linked homodimer that interacts with SOSTDC1, GREM2, RGMA, RGMB, RGMC and ASPN. In terms of tissue specificity, the BMP-2 protein is particularly abundant in the lungs, spleen and colon and less abundant but still prevalent in the heart, brain, placenta, liver, skeletal muscle, kidneys, pancreas, prostate, ovaries and small intestine.
Product Categories/Family for CA9 clia kit	Luminometer Sandwich ELISA

NCBI AND UNIPROT INFORMATION

NCBI GI #	119578763
NCBI GeneID	768
UniProt Accession #	Q16790
NCBI Official Full Name	carbonic anhydrase IX
NCBI Official Synonym Full Names	carbonic anhydrase 9
NCBI Official Symbol	CA9
NCBI Official Synonym Symbols	MN; CAIX
NCBI Protein Information	carbonic anhydrase 9
UniProt Protein Name	Carbonic anhydrase 9
UniProt Gene Name	CA9
UniProt Synonym Gene Names	G250; MN; CA-IX; CAIX; RCC-associated antigen G250

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.