

Human CRTAC1 ELISA Kit | CRTAC1 elisa kit

Human CRTAC1 PicoKine ELISA Kit

CATALOG #
AAA125294

REACTIVITY
Human

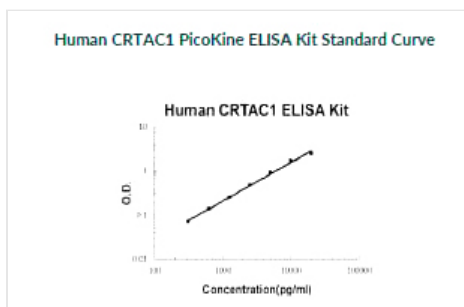
PRODUCT SYNONYMS

CRTAC1; Human CRTAC1 PicoKine ELISA Kit; Human CRTAC1; Cartilage acidic protein 1; 68 kDa chondrocyte-expressed protein; CEP-68; ASPIC; ASPIC1; CEP68; CRTAC1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Natural and recombinant Human CRTAC1
Sequence Length	645
Samples	Cell culture supernates, serum and plasma (heparin, EDTA, citrate)
Detection Range	312pg/ml-20000pg/ml
Sensitivity	<50pg/ml
Intra-assay Precision	Intra-Assay Precision (Precision within an assay): Three samples of known concentration were tested on one plate to assess intra-assay precision.
Inter-assay Precision	Inter-Assay Precision (Precision across assays):Three samples of known concentration were tested in separate assays to assess inter-assay precision.
Preparation and Storage	Store at 4 degree C for 6 months. Store at -20 degree C for 12 months. Avoid multiple freeze-thaw cycles.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for CRTAC1 elisa kit	Principle of the Assay: The Picokine™ Human CRTAC1 Pre-Coated ELISA (Enzyme-Linked Immunosorbent Assay) kit is a solid phase immunoassay specially designed to measure Human CRTAC1 with a 96-well strip plate that is pre-coated with antibody specific for CRTAC1. The detection antibody is a biotinylated antibody specific for CRTAC1. The capture antibody is a monoclonal antibody from mouse, the detection antibody is a biotinylated polyclonal antibody from goat. The kit contains recombinant Human CRTAC1 with immunogen: Expression system for standard: NSO, Immunogen sequence: S28-C661. The kit is analytically validated with ready to use reagents. To measure Human CRTAC1, add standards and samples to the wells, then add the biotinylated detection antibody. Wash the wells with PBS or TBS buffer, and add Avidin-Biotin-Peroxidase Complex (ABC-HRP). Wash away the unbound ABC-HRP with PBS or TBS buffer and add TMB. TMB is substrate to HRP and will be catalyzed to produce a blue color product, which changes into yellow after adding acidic stop solution. The density of the yellow product is linearly proportional to Human CRTAC1 in the sample. Read the density of the yellow product in each well using a plate reader, and benchmark the sample wells' readings against the standard curve to determine the concentration of Human CRTAC1 in the sample.!!Background/Introduction: cartilage acidic protein 1 is a protein that in humans is encoded by the CRTAC1 gene. It is mapped to 10q24.2. This gene encodes a glycosylated extracellular matrix protein that is found in the interterritorial matrix of articular deep zone cartilage. This protein is used as a marker to distinguish chondrocytes from osteoblasts and mesenchymal stem cells in culture. The presence of FG-GAP motifs and an RGD integrin-binding motif suggests that this protein may be involved in cell-cell or cell-matrix interactions. Copy number alterations in this gene have been observed in neurofibromatosis type 1-associated glomus tumors. Alternative splicing results in multiple transcript variants.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	330688397
NCBI GeneID	55118
NCBI Accession #	NP_001193457.1
NCBI GenBank Nucleotide #	NP_001193457.1
UniProt Accession #	Q9NQ79
NCBI Official Full Name	cartilage acidic protein 1 isoform B
NCBI Official Synonym Full Names	cartilage acidic protein 1
NCBI Official Symbol	CRTAC1
NCBI Official Synonym Symbols	ASPIC; CEP68; LOTUS; ASPIC1; CEP-68
NCBI Protein Information	cartilage acidic protein 1
UniProt Protein Name	Cartilage acidic protein 1
UniProt Gene Name	CRTAC1
UniProt Synonym Gene Names	ASPIC1; CEP68; CEP-68
UniProt Entry Name	CRAC1_HUMAN

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.