

Human Crossveinless-2/CV-2/BMPER ELISA Kit | BMPER elisa kit

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CATALOG #
AAA125839

REACTIVITY
Human

PRODUCT SYNONYMS

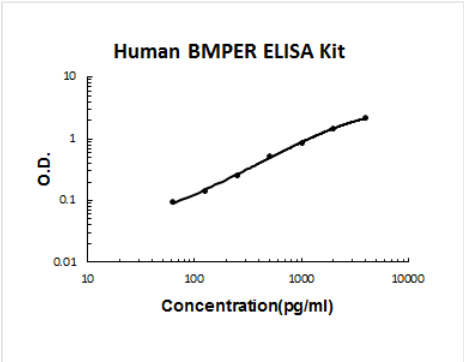
Crossveinless-2/CV-2/BMPER; Human Crossveinless-2/CV-2/BMPER ELISA Kit; CV2; CV-2; CRIM3; BMP binding endothelial regulator; BMPER elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Natural and recombinant human BMPER
Samples	cell culture supernatants, serum and plasma (heparin, EDTA, citrate)
Detection Range	62.5pg/ml-4,000pg/ml
Sensitivity	<50pg/ml
Capture/Detection Antibodies	Capture antibody- a polyclonal antibody from goat Detection antibody- a biotinylated polyclonal antibody from goat
Sample Data	Concentration(pg/ml) 0 62.5 125 250 500 1000 2000 4000 O.D. 0.063 0.157 0.208 0.314 0.582 0.924 1.537 2.213
Intra-Assay Precision	Sample 1 2 3 n 16 16 16 Mean(pg/ml) 198 763 1376 Standard deviation 11.09 46.54 88.06 CV(%) 5.6% 6.1% 6.4%
Inter-Assay Precision	Sample 1 2 3 n 24 24 24 Mean(pg/ml) 198 763 1376 205 781 1424 Standard deviation 14.76 58.58 119.62 CV(%) 7.2% 7.5% 8.4%
Reproducibility	To assay reproducibility, three samples with differing target protein concentrations were assayed using four different lots. Lots: Lot 1 (pg/ml) Lot 2 (pg/ml) Lot 3 (pg/ml) Lot 4 (pg/ml) Mean (pg/ml) Standard Deviation CV (%) Sample 1: 198 182 204 212 199 10.15 5.1% Sample 2: 763 782 792 790 782 48.48 6.2% Sample 3: 1376 1294 1453 1380 1376 67.42 4.9% *number of samples for each test n=16.
Cross Reactivity	There is no detectable cross-reactivity with other relevant proteins.
Immunogen	Expression system for standard: NS0; Immunogen sequence: V34-R685
Anticoagulant	heparin, EDTA or citrate
Principle	Human BMPER ELISA Kit is based on standard sandwich enzyme-linked immune-sorbent assay technology. A polyclonal antibody from goat specific for BMPER has been precoated onto 96-well plates. Standards(Expression system for standard: NS0, Immunogen sequence: V34-R685) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for BMPER is added subsequently and then followed by washing with PBS or TBS buffer. Avidin-Biotin-Peroxidase Complex is added and unbound conjugates are washed away with PBS or TBS buffer. HRP substrate TMB are used to visualize HRP enzymatic reaction. TMB is catalyzed by HRP to produce a blue color product that changed into yellow after adding acidic stop solution. The density of yellow is proportional to the human BMPER amount of sample captured in plate.

Assay Procedure Step 1	Aliquot 0.1ml per well of the 4000pg/ml, 2000pg/ml, 1000pg/ml, 500pg/ml, 250pg/ml, 125pg/ml, 62.5pg/ml human BMPER standard solutions into the precoated 96-well plate. Add 0.1ml of the sample diluent buffer into the control well (Zero well). Add 0.1ml of each properly diluted sample of human cell culture supernatants, serum or plasma(heparin, EDTA, citrate) to each empty well. See "Sample Dilution Guideline" for details. It is recommended that each human BMPER standard solution and each sample be measured in duplicate.
TMB Incubation Time	15-20
Preparation and Storage	Store at 4 degree C for 6 months, at -20 degree C for 12 months. Avoid multiple freeze-thaw cycles. (Shipped with wet ice.)

IMAGES



Application Data

ADDITIONAL INFORMATION

Related Product Information for BMPER elisa kit	This gene encodes a secreted protein that interacts with, and inhibits bone morphogenetic protein (BMP) function. It has been shown to inhibit BMP2- and BMP4-dependent osteoblast differentiation and BMP-dependent differentiation of the chondrogenic cells. Mutations in this gene are associated with a lethal skeletal disorder, diaphanospondylodysostosis.
Product Categories/Family for BMPER elisa kit	ELISA kits

NCBI AND UNIPROT INFORMATION

NCBI GI #	37693519
NCBI GeneID	168667
NCBI Accession #	NP_597725.1
NCBI GenBank Nucleotide #	NM_133468.5
UniProt Accession #	Q8N8U9; Q8TF36; A8K1P8
Molecular Weight	75,997 Da
NCBI Official Full Name	BMP-binding endothelial regulator protein
NCBI Official Synonym Full Names	BMP binding endothelial regulator
NCBI Official Symbol	BMPER
NCBI Official Synonym Symbols	CV2; CV-2; CRIM3
NCBI Protein Information	BMP-binding endothelial regulator protein
UniProt Protein Name	BMP-binding endothelial regulator protein
UniProt Gene Name	BMPER

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.

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Online datasheet: <https://stage.aaabiotech.com/human-elisa-kits/crossveinless-2-cv-2-bmper/125839>