

Rat Crossveinless-2/CV-2/BMPER ELISA Kit | Bmper elisa kit

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CATALOG # AAA125841	REACTIVITY Rat
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PRODUCT SYNONYMS

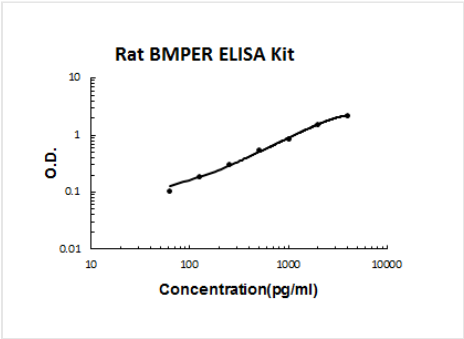
Crossveinless-2/CV-2/BMPER; Rat Crossveinless-2/CV-2/BMPER ELISA Kit; CV2; CV-2; CRIM3; BMP-binding endothelial regulator; Bmper elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Specificity	Natural and recombinant rat 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. 0.068 0.172 0.254 0.376 0.612 0.922 1.624 2.289
Intra-Assay Precision	Sample 1 2 3 n 16 16 16 Mean(pg/ml) 226 813 1749 Standard deviation 10.62 45.53 101.44 CV(%) 4.7% 5.6% 5.8%
Inter-Assay Precision	Sample 1 2 3 n 24 24 24 Mean(pg/ml) 235 854 1806 Standard deviation 15.04 62.34 140.87 CV(%) 6.4% 7.3% 7.8%
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: 226 217 208 243 224 10.53 4.7% Sample 2: 813 835 829 846 831 49.03 5.9% Sample 3: 1749 1876 1816 1721 1791 110.98 6.2% *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	Rat 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 rat BMPER amount of sample captured in plate.

Assay Procedure Step 1	Aliquot 0.1ml per well of the 20000pg/ml, 10000pg/ml, 5000pg/ml, 2500pg/ml, 1250pg/ml, 625pg/ml, 312pg/ml rat 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 rat cell culture supernatants, serum or plasma (heparin, EDTA, citrate) to each empty well. See "Sample Dilution Guideline" for details. We recommended that each rat 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 GeneID	300455
UniProt Accession #	F1M661

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.