Mouse BMP-binding endothelial regulator protein (BMPER) ELISA Kit

Catalog No: #EK11327

Package Size: #EK11327-1 48T #EK11327-2 96T

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

Description

Product Name	Mouse BMP-binding endothelial regulator protein (BMPER) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Mouse (Mus musculus)
Other Names	CRIM3; CV-2; CV2; BMP-binding endothelial regulator precursor protein|OTTHUMP00000158859|bone morphogenetic protein-binding endothelial cell precursor-derived regulator|crossveinless 2|crossveinless
Accession No.	Q8CJ69
Uniprot	Q8CJ69
GeneID	73230;
Storage	The stability of ELISA kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition. The loss rate was determined by accelerated thermal degradation test. Keep the kit at 37C for 4 and 7 days, and compare O.D.values of the kit kept at 37C with that of at recommended temperature. (referring from China Biological Products Standard, which was calculated by the Arrhenius equation. For ELISA kit, 4 days storage at 37C can be considered as 6 months at 2 - 8C, which means 7 days at 37C equaling 12 months at 2 - 8C).

Application Details

Detect Range:0.156-10 ng/mL

Sensitivity:0.061 ng/mL

Sample Type:Serum, Plasma, Other biological fluids

Sample Volume: 1-200 µL

Assay Time:1-4.5h

Detection wavelength:450 nm

Product Description

Detection Method:SandwichTest principle:This assay employs a two-site sandwich ELISA to quantitate BMPER in samples. An antibody specific for BMPER has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyBMPER present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for BMPER is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of BMPER bound in the initial step. The color development is stopped and the intensity of the color is measured.Product Overview:BMPER contains a 39-amino acid signal peptide at the N terminus, 5 tandem cysteine-rich von Willebrand C (VWC)-like domains, 1 von Willebrand D domain, and a C-terminal trypsin inhibitor domain. Expression of recombinant Bmper showed the presence of full-length protein and a 42-kD C-terminal proteolytic fragment. In adult mice, expression of Bmper was high in heart, lung, and skin and low in brain. In situ hybridization of mouse tissue showed dynamic expression of Bmper during embryonic development. At embryonic day 9.5, Bmper staining was seen in the lamina reuniens adjacent to the telencephalic vesicle and in migrating branchial arch cells. At embryonic day 10.5, staining was seen in endothelial cells around the dorsal aorta and in adjacent migrating or mesenchymal cells.

Note: This product is for in vitro research use only