Monkey Bone morphogenetic protein receptor type-2 (BMPR2) ELISA Kit

Catalog No: #EK11945

Package Size: #EK11945-1 48T #EK11945-2 96T

Orders: order@signalwayantibody.com
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Description

Product Name	Monkey Bone morphogenetic protein receptor type-2 (BMPR2) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Monkey (Simian)
Other Names	BMPR-II; BMPR3; BMR2; BRK-3; FLJ41585; FLJ76945; PPH1; T-ALK; BMP type II receptor|bone morphogenetic protein receptor type II|bone morphogenetic protein receptor type-2|type II activin receptor-lik
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:Request Information

Sensitivity:Request Information

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 BMPR2 in samples. An antibody specific for BMPR2 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyBMPR2 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for BMPR2 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 BMPR2 bound in the initial step. The color development is stopped and the intensity of the color is measured.Product Overview:Bone morphogenetic protein receptor type II or BMPR2 is a serine/threonine receptor kinase. It binds Bone morphogenetic proteins, members of the TGF beta superfamily of ligands. BMPs are involved in host of cellular functions including osteogenesis, cell growth and cell differentiation. Signaling in the BMP pathway begins with the binding of a BMP to the type II receptor. This causes the recruitment of a BMP type I receptor, which it phosphorylates. The Type I receptor phosphorylates an R-SMAD a transcriptional regulator.Unlike the TGFβ type II receptor, which has a high affinity for TGF-β1, BMPR2 does not have a high affinity for BMP-2, BMP-7 and BMP-4, unless it is co-expressed with a type I BMP receptor. In TGF beta signaling all of the receptors exist in homodimers before ligand binding.

Note: This product is for in vitro research use only