

Rat Bone Morphogenetic Protein Receptor 1A ELISA Kit | BMPR1A elisa kit

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CATALOG #
AAA82355

REACTIVITY
Rat

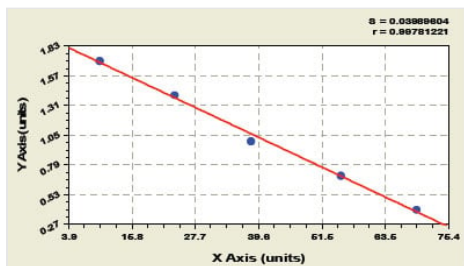
PRODUCT SYNONYMS

Bone Morphogenetic Protein Receptor 1A; Rat Bone Morphogenetic Protein Receptor 1A ELISA Kit; BMPR1A elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Samples	Serum, plasma, Cell Culture Supernatants, body fluid and tissue homogenate
Assay Type	Competitive
Detection Range	1.0-25ng/mL
Sensitivity	0.1 ng/ml
Intended Uses	This BMPR1A ELISA kit is a 1.5 hour solid-phase ELISA designed for the quantitative determination of Rat BMPR1A. This ELISA kit for research use only, not for therapeutic applications!
Preparation and Storage	Store all reagents at 2-8 degree C.

IMAGES



ADDITIONAL INFORMATION

Related Product Information for BMPR1A elisa kit

Principle of the assay: BMPR1A ELISA kit applies the competitive enzyme immunoassay technique utilizing a monoclonal anti-BMPR1A antibody and an BMPR1A-HRP conjugate. The assay sample and buffer are incubated together with BMPR1A-HRP conjugate in pre-coated plate for one hour. After the incubation period, the wells are decanted and washed five times. The wells are then incubated with a substrate for HRP enzyme. The product of the enzyme-substrate reaction forms a blue colored complex. Finally, a stop solution is added to stop the reaction, which will then turn the solution yellow. The intensity of color is measured spectrophotometrically at 450nm in a microplate reader. The intensity of the color is inversely proportional to the BMPR1A concentration since BMPR1A from samples and BMPR1A-HRP conjugate compete for the anti-BMPR1A antibody binding site. Since the number of sites is limited, as more sites are occupied by BMPR1A from the sample, fewer sites are left to bind BMPR1A-HRP conjugate. A standard curve is plotted relating the intensity of the color (O.D.) to the concentration of standards. The BMPR1A concentration in each sample is interpolated from this standard curve.

Product Categories/Family for BMPR1A elisa kit

[Signal Transduction](#)

NCBI AND UNIPROT INFORMATION

NCBI GI #	41349437
NCBI GeneID	657
NCBI Accession #	NP_004320.2
NCBI GenBank Nucleotide #	NM_004329.2
Molecular Weight	60,198 Da
NCBI Official Full Name	bone morphogenetic protein receptor type-1A
NCBI Official Synonym Full Names	bone morphogenetic protein receptor, type IA
NCBI Official Symbol	BMPR1A
NCBI Official Synonym Symbols	ALK3; SKR5; CD292; ACVRLK3; 10q23del
NCBI Protein Information	bone morphogenetic protein receptor type-1A; ALK-3; BMPR-1A; BMP type-1A receptor; activin receptor-like kinase 3; activin A receptor, type II-like kinase 3; serine/threonine-protein kinase receptor R5
UniProt Protein Name	Bone morphogenetic protein receptor type-1A
UniProt Gene Name	BMPR1A
UniProt Synonym Gene Names	ACVRLK3; ALK3; BMP type-1A receptor; BMPR-1A; ALK-3; SKR5
UniProt Entry Name	BMR1A_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.

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Online datasheet: <https://stage.aaabiotech.com/bmpr1a-rat-elisa-kits/bone-morphogenetic-protein-receptor-1a/82355>