



## Mouse Bone Morphogenetic protein 2 (BMP-2) ELISA Kit (2 plates)

**Catalogue No.:** BEK-2006-2P

**Description:** The mouse Bone Morphogenetic protein 2 (BMP-2) Kit is a sandwich ELISA. The capture antibody is a monoclonal BMP-2 antibody pre-coated onto the 96-well strip plates provided in the kit. Mouse test samples and standards of known BMP-2 concentration are added to these wells and allowed to complex with the bound BMP-2 antibody. A biotinylated BMP-2 monoclonal antibody is then added. This detection antibody binds to the antigen thus completing the sandwich. After washing, an enzyme Avidin-Biotin-Peroxidase complex (ABC) is added which binds to the second antibody. The peroxidase substrate TMB is added to induce a coloured reaction product. The intensity of this coloured product is directly proportional to the concentration of BMP-2 present in the samples. The purpose of this kit is the in-vitro quantitative determination of mouse BMP-2 in samples such as sera, plasma, tissue lysates and cell culture supernates. This kit has been configured for research use only and is not to be used in diagnostic or clinical procedures.

**Batch No.:** See product labels

**Other Names:** BMP2; bone morphogenetic protein 2; BMP2A; BMP-2A;

**Accession:** P21274 BMP2\_MOUSE;

**Specificity:** Human; Mouse; Rat;

**Cross-reactivity:** The antibodies in this kit cross react with human, rat and mouse BMP-2 and likely other untested species.

**Storage:** Store at 2-8C

**Specific References:** 1. Machado R et al (2012) Elastin-based nanoparticles for delivery of bone morphogenetic proteins. Methods Mol Biol. 2012;906:353-63.

**Kit components:** The ELISA kit box contains 2 x 96-well pre-coated strip plates, protein standards, detection reagents, substrate buffer and detailed protocols.

**Range:** 62.5 pg/mL - 4,000 pg/mL

**Sensitivity:** < 2 pg/ml

**Kit protocol:** Please refer to our online product listing for current protocol/MSDS versions.

Typical Mouse BMP-2 ELISA Kit Standard Curve  
(TMB reaction incubated at 37°C for 17 min)

Concentration (pg/ml)	0.0	62.5	125	250	500	1000	2000	4000
O.D	0.045	0.075	0.097	0.152	0.275	0.536	1.119	2.109



This standard curve is for demonstration purposes only. A standard curve should be generated for each assay.

FOR RESEARCH USE ONLY