Elabscience®

Human BMP-2 Antibody Pair Set

Catalog No.	E-KAB-0159	Applications	ELISA
Synonyms	BMP2A, BMP-2A, BDA2		

Kit components & Storage

Title	Specifications	Storage
Human BMP-2 Capture Antibody	1 vial, 100 µ g	Store at -20° C for one year.
		Avoid freeze / thaw cycles.
Human BMP-2 Detection Antibody	1 vial, 50 μL	Store at -20°C for one year.
(Biotin)		Avoid freeze / thaw cycles.

Note: Centrifuge before opening to ensure complete recovery of vial contents.

Product Information

Items		Characteristic (E-KAB-0159)		
		Human BMP-2 Capture Antibody	Human BMP-2 Detection Antibody (Biotin)	
Immunogen	Immunogen	Recombinant Human BMP-2 protein	Recombinant Human BMP-2 protein	
Information	Swissprot	P12643		
Product details	Reactivity	Human	Human	
	Host	Mouse	Mouse	
	Conjugation	Unconjugated	Biotin	
	Concentration	0.5mg/mL	/	
	Buffer	PBS with 0.04% Proclin 300, 50%	PBS with 0.04% Proclin 300, 1%	
		glycerol, pH 7.4	protective protein, 50% glycerol, pH	
			7.4	
	Purify	Protein A or G	Protein A or G	
	Specificity	Detects Human BMP-2 in ELISAs.		

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Applications

Human BMP-2 Sandwich ELISA Assay:

	Recommended	Reagent	Images
	Concentration/Dilution		
ELISA	0.5-4µg/mL	Human BMP-2 Capture Antibody	
Capture			
ELISA Detection	1:1000-1:10000	Human BMP-2 Detection Antibody (Biotin)	Optical Density
			10 100 1000 10000 100000 Human BMP-2 concentration(pg/mL)

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

Background

Bone morphogenetic protein-2 (BMP-2) is a member of the transforming growth factor-beta (TGFB) superfamily. BMP2 is synthesized as a 60 kDa precursor that is processed in the secretory pathway to a small 18 kDa monomer; 2 monomers then associate to form the active 30 kDa homodimer, which binds to its receptor. There is also a 40-45 kDa form of BMP2, as an amino-terminal propeptide. BMP2 can induce bone formation and regeneration during early embryonic development. It is involved in the hedgehog pathway, TGF beta signaling pathway, and cytokine-cytokine receptor interaction.