

## BMP7 Ab

[Images\(1\)](#)

Cat.#: DF6136                                      Concn.: ~1mg/ml                                      Mol.Wt.: 49kDa  
Size:    Source: Rabbit    Clonality: Polyclonal

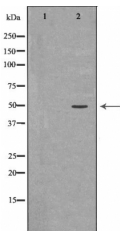
Application:                                      WB 1:500-1:2000  
\*The optimal dilutions should be determined by the end user.  
Reactivity:                                      Human,Mouse,Rat  
Storage:    Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at -20 °C. Stable for 12 months from date of receipt.

Purification:                                      The antiserum was purified by peptide affinity chromatography using SulfoLink™ Coupling Resin (Thermo Fisher Scientific).

Immunogen:                                      A synthesized peptide derived from human BMP7, corresponding to a region within the internal amino acids.

Uniprot:    P18075

Description:                                      Bone morphogenetic proteins (BMPs) were first identified as molecules that can induce ectopic bone and cartilage formation (1,2). BMPs belongs to the TGF- $\beta$  superfamily, playing many diverse functions during development . BMPs are synthesized as precursor proteins and then processed by cleavage to release the c-terminal mature BMP. BMPs initiate signaling by binding to a receptor complex containing type I and type II serine/threonine receptor kinases that then phosphorylate Smad (mainly Smad1, 5 and 8), resulting the translocation of Smad into the nucleus. BMP was also reported to activate MAPK pathways in some systems (3,4).



Western blot analysis of human Prostate tissue using BMP7 Ab. The lane on the left was treated with the antigen-specific peptide.

**IMPORTANT:** For western blot, incubate membrane with diluted primary Ab in 5% w/v milk , 1X TBS, 0.1% Tween@20 at 4°C with gentle shaking, overnight.

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