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**Product Name: BMP7 Mouse Monoclonal Antibody****Catalog #: AMM81555**

For research use only.

**Summary**

<b>Description</b>	Mouse monoclonal Antibody
<b>Host</b>	Mouse
<b>Application</b>	WB,IHC,ELISA,FC
<b>Reactivity</b>	Human,Mouse
<b>Conjugation</b>	Unconjugated
<b>Modification</b>	Unmodified
<b>Isotype</b>	Mouse IgG1
<b>Clonality</b>	Monoclonal
<b>Form</b>	Liquid
<b>Concentration</b>	1mg/ml
<b>Storage</b>	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
<b>Shipping</b>	Ice bags
<b>Buffer</b>	Purified antibody in PBS with 0.05% sodium azide
<b>Purification</b>	Affinity Purification

**Application**

<b>Dilution Ratio</b>	WB 1:500-1:2000,IHC 1:200-1:1000,ELISA 1:5000-1:20000,FC 1:200-1:400
<b>Molecular Weight</b>	49.3kDa

**Antigen Information**

<b>Gene Name</b>	BMP7
<b>Alternative Names</b>	OP-1
<b>Gene ID</b>	655.0
<b>SwissProt ID</b>	P18075
<b>Immunogen</b>	Purified recombinant fragment of human BMP7 (AA: 239-431) expressed in E. Coli.

**Background**

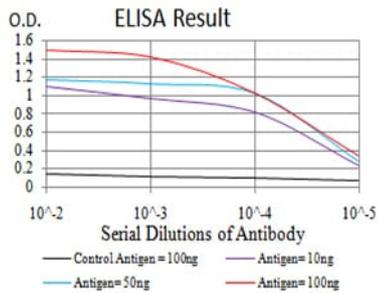
The bone morphogenetic proteins (BMPs) are a family of secreted signaling molecules that can induce ectopic bone growth. Many BMPs are part of the transforming growth factor-beta (TGFB) superfamily. BMPs were originally identified by an ability of demineralized bone extract to induce endochondral osteogenesis in vivo in an extraskeletal site. Based on its expression early

in embryogenesis, the BMP encoded by this gene has a proposed role in early development and possible bone inductive activity.

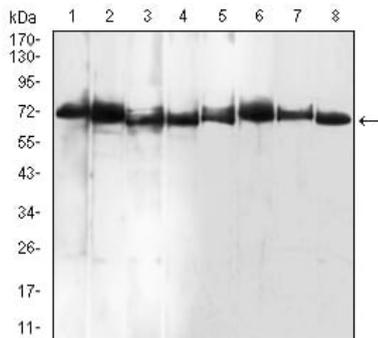
## Research Area

TGF-beta signaling pathway

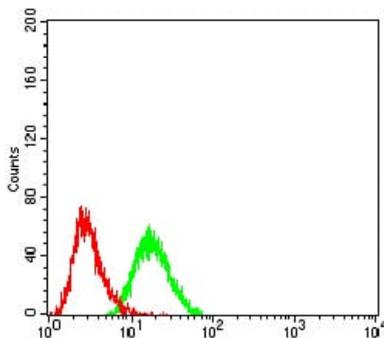
## Image Data



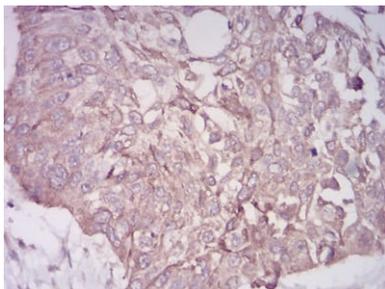
Black line: Control Antigen (100 ng); Purple line: Antigen(10ng); Blue line: Antigen (50 ng); Red line: Antigen (100 ng);



Western blot analysis using BMP7 mouse mAb against Raw264.7 (1), A549 (2), Jurkat (3), PC-3 (4), HEK293 (5), Jurkat (6), NIH/3T3 (7), and Hela (8) cell lysate.



Flow cytometric analysis of HEK293 cells using BMP7 mouse mAb (green) and negative control (red).



Immunohistochemical analysis of paraffin-embedded human esophageal cancer tissues using BMP7 mouse mAb with DAB staining.

