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**Product Name: BMPR1A Mouse Monoclonal Antibody****Catalog #: AMM83017**

For research use only.

**Summary**

<b>Description</b>	Mouse monoclonal Antibody
<b>Host</b>	Mouse
<b>Application</b>	WB,IHC,ICC,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>	PBS containing 0.03% sodium azide.
<b>Purification</b>	Affinity Purification

**Application**

<b>Dilution Ratio</b>	WB 1:500-1:2000,IHC 1:200-1:1000,ICC 1:200-1:1000,ELISA 1:5000-1:20000,FC 1:200-1:400
<b>Molecular Weight</b>	60kDa

**Antigen Information**

<b>Gene Name</b>	BMPR1A
<b>Alternative Names</b>	ALK3; SKR5; CD292; ACVRLK3; 10q23del
<b>Gene ID</b>	657.0
<b>SwissProt ID</b>	P36894
<b>Immunogen</b>	Purified recombinant fragment of human BMPR1A (AA: 179-378 ) expressed in E. Coli.

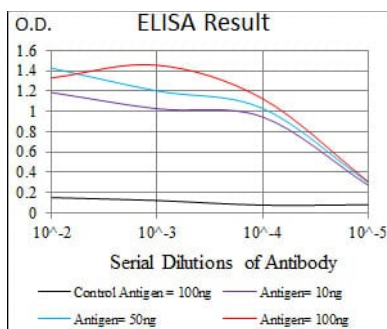
**Background**

The bone morphogenetic protein (BMP) receptors are a family of transmembrane serine/threonine kinases that include the type I receptors BMPR1A and BMPR1B and the type II receptor BMPR2. These receptors are also closely related to the activin receptors, ACVR1 and ACVR2. The ligands of these receptors are members of the TGF-beta superfamily. TGF-betas and activins

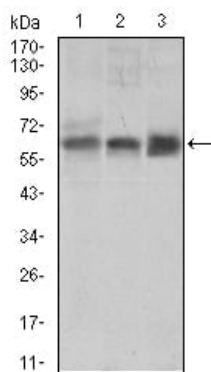
transduce their signals through the formation of heteromeric complexes with 2 different types of serine (threonine) kinase receptors: type I receptors of about 50-55 kD and type II receptors of about 70-80 kD. Type II receptors bind ligands in the absence of type I receptors, but they require their respective type I receptors for signaling, whereas type I receptors require their respective type II receptors for ligand binding.

## Research Area

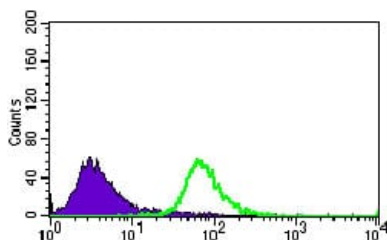
### Image Data



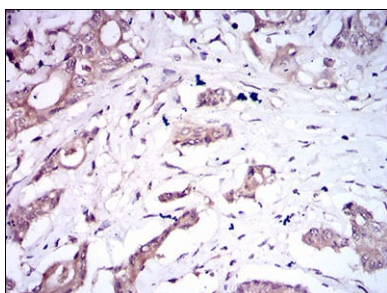
Black line: Control Antigen (100 ng); Purple line: Antigen(10ng); Blue line: Antigen (50 ng); Red line: Antigen (100 ng);



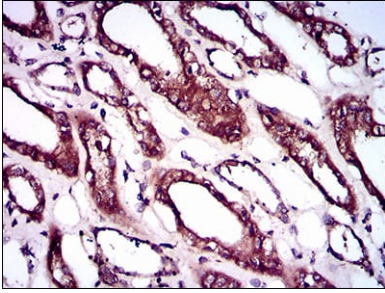
Western blot analysis using BMPR1A mouse mAb against PC-3 (1), K562 (2) cell lysate, and Mouse liver (3) tissue lysate.



Flow cytometric analysis of HeLa cells using BMPR1A mouse mAb (green) and negative control (purple).



Immunohistochemical analysis of paraffin-embedded human colon cancer tissues using BMPR1A mouse mAb with DAB staining.



Immunohistochemical analysis of paraffin-embedded human kidney tissues using BMPR1A mouse mAb with DAB staining.