

BMP5 Polyclonal Antibody | anti-BMP5 antibody

Anti-BMP5 Antibody

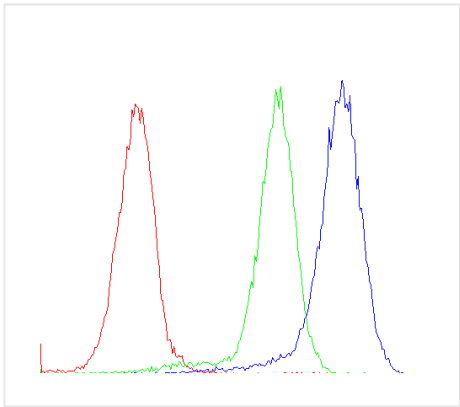
CATALOG # AAA46554	REACTIVITY Human, Mouse, Rat	APPLICATIONS ELISA, Immunohistochemistry, Western Blot
------------------------------	--	--

PRODUCT SYNONYMS

BMP5; Polyclonal Antibody; Anti-BMP5 Antibody; Bone morphogenetic protein 5; BMP 5; BMP-5; Bmp5; BMP5_HUMAN; MGC34244; bone morphogenetic protein 5; anti-BMP5 antibody

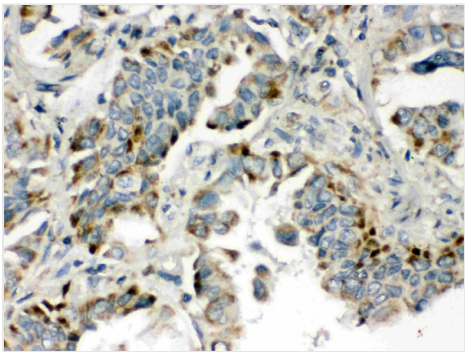
PRODUCT SPECIFICATIONS

Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Purity/Purification	Immunogen Affinity Purified
Form/Format	Lyophilized. Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg NaN ₃ .
Sequence Length	454
Applicable Applications for anti-BMP5 antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human BMP5 (332-365aa HQDSSRMSSVG DYNTSEKQACKKHELYVSFRDL), different from the related mouse sequence by three amino acids.
Ig Type	Rabbit IgG
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Preparation and Storage	At -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquoted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.

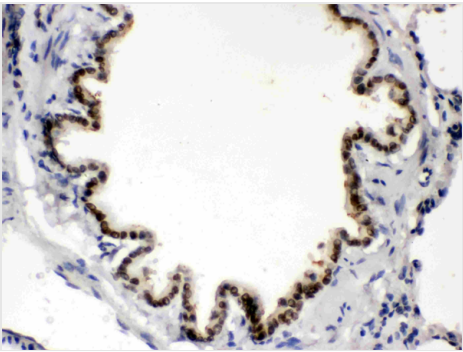


FCM/FACS (Flow Cytometry)

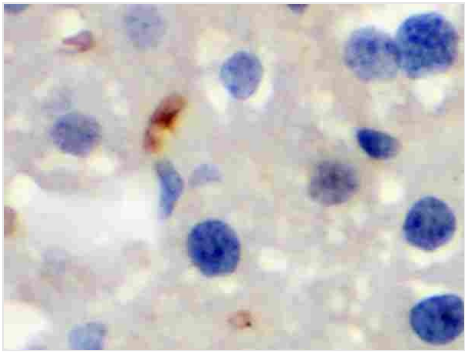
Figure 5. Flow Cytometry analysis of U20S cells using anti-BMP5 antibody (AAA46554).Overlay histogram showing U20S cells stained with AAA46554 (Blue line).The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-BMP5 Antibody (AAA46554,1ug/1x10⁶ cells) for 30 min at 20 degree C. DyLight[®]488 conjugated goat anti-rabbit IgG (5-10ug/1x10⁶ cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



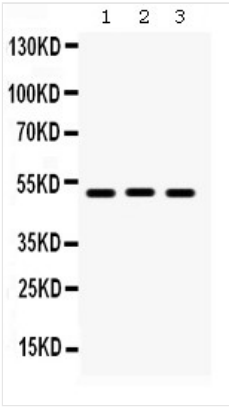
IHC (Immunohistochemistry)
Anti- BMP5 Picoband antibody, AAA46554, IHC(P)IHC(P): Human Lung Cancer Tissue



IHC (Immunohistochemisry)
Anti- BMP5 Picoband antibody, AAA46554, IHC(P)IHC(P): Rat Lung Tissue



IHC (Immunohiostchemistry)
Anti- BMP-5 Picoband antibody, AAA46554, IHC(P)IHC(P): Mouse Liver Tissue



WB (Western Blot)

Anti- BMP-5 Picoband antibody, AAA46554, Western blottingAll lanes: Anti BMP-5 (AAA46554) at 0.5ug/mlLane 1: Rat Liver Tissue Lysate at 50ugLane 2: Mouse Liver Tissue Lysate at 50ugLane 3: A549 Whole Cell Lysate at 40ugPredicted bind size: 51KDObserved bind size: 51KD

ADDITIONAL INFORMATION

Related Product Information for anti-BMP5 antibody	Description: Rabbit IgG polyclonal antibody for Bone morphogenetic protein 5(BMP5) detection. Tested with WB, IHC-P, ELISA in Human;Mouse;Rat. Background: Bone morphogenetic protein 5 is a protein that in humans is encoded by the BMP5 gene. This gene encodes a member of the bone morphogenetic protein family which is part of the transforming growth factor-beta superfamily. The superfamily includes large families of growth and differentiation factors. Bone morphogenetic proteins were originally identified by an ability of demineralized bone extract to induce endochondral osteogenesis in vivo in an extraskelatal site. These proteins are synthesized as prepropeptides, cleaved, and then processed into dimeric proteins. And this protein may act as an important signaling molecule within the trabecular meshwork and optic nerve head, and may play a potential role in glaucoma pathogenesis. This gene is differentially regulated during the formation of various tumors.
References	1. "Entrez Gene: BMP5 bone morphogenetic protein 5". 2. Beck HN, Drahushuk K, Jacoby DB, Higgins D, Lein PJ (Mar 2003). "Bone morphogenetic protein-5 (BMP-5) promotes dendritic growth in cultured sympathetic neurons". BMC Neurosci 2: 12. 3. Hahn GV, Cohen RB, Wozney JM, Levitz CL, Shore EM, Zasloff MA, Kaplan FS (Dec 1992). "A bone morphogenetic protein subfamily: chromosomal localization of human genes for BMP5, BMP6, and BMP7". Genomics 14 (3): 759-62.

NCBI AND UNIPROT INFORMATION

NCBI GI #	10835091
NCBI GeneID	653
NCBI Accession #	NP_066551.1
NCBI GenBank Nucleotide #	NM_021073.2
UniProt Accession #	P22003 ; Q9H547 ; Q9NTM5 ; B4E0Y4
Molecular Weight	47,670 Da
NCBI Official Full Name	bone morphogenetic protein 5 preproprotein
NCBI Official Synonym Full Names	bone morphogenetic protein 5
NCBI Official Symbol	BMP5
NCBI Protein Information	bone morphogenetic protein 5
UniProt Protein Name	Bone morphogenetic protein 5
UniProt Gene Name	BMP5
UniProt Synonym Gene Names	BMP-5
UniProt Entry Name	BMP5_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com

Online datasheet: <https://stage.aaabiotech.com/polyclonal/bmp5-antibody-immunohistochemistry-western-blot-elisa/46554>