

Rabbit GDF5 Polyclonal Antibody | anti-GDF5 antibody

Anti-GDF5 Antibody, Rabbit Polyclonal

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA254757	Rabbit	Human Predicted to React with: Mouse (Species predicted to react based on 100% sequence homology)	Immunofluorescence, Immunocytochemistry, Immunohistochemistry

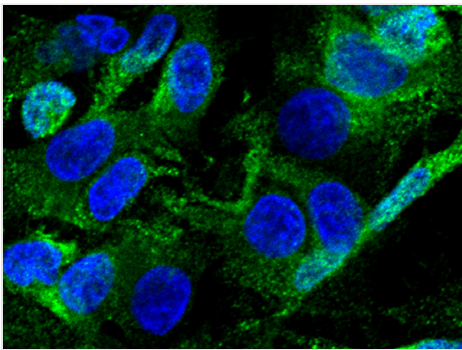
PRODUCT SYNONYMS

GDF5; Polyclonal Antibody; Anti-GDF5 Antibody; Rabbit Polyclonal; GDF5 Antibody; Rabbit PAb; Antigen Affinity Purified; growth differentiation factor 5; Anti-BDA1C Antibody; Anti-BMP-14 Antibody; Anti-BMP14 Antibody; Anti-CDMP1 Antibody; Anti-LAP-4 Antibody; Anti-LAP4 Antibody; Anti-OS5 Antibody; Anti-SYM1B Antibody; Anti-SYNS2 Antibody; anti-GDF5 antibody

PRODUCT SPECIFICATIONS

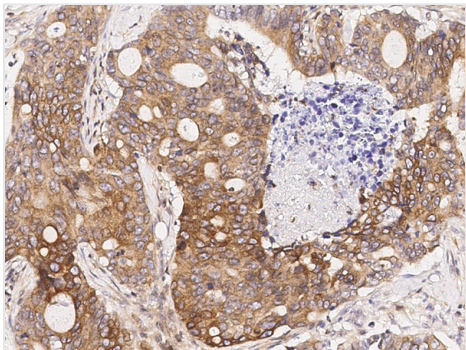
Host	Rabbit
Reactivity	Human Predicted to React with: Mouse (Species predicted to react based on 100% sequence homology)
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Human GDF5
Purity/Purification	Protein A & Antigen Affinity
Form/Format	Liquid; 0.2um filtered solution in PBS
Applicable Applications for anti-GDF5 antibody	IF (Immunofluorescence), ICC (Immunocytochemistry), IHC (Immunohistochemistry)
Immunogen	A synthetic peptide corresponding to the N-terminus of the Human GDF5
Conjugation	Unconjugated
Preparation	Produced in rabbits immunized with a synthetic peptide corresponding to the N-terminus of the Human GDF5, and purified by antigen affinity chromatography.
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Preservative-Free. Avoid repeated freeze-thaw cycles.

IMAGES



IF (Immunofluorescence)

Immunofluorescence staining of GDF5 in HepG2 cells. Cells were fixed with 4% PFA, permeabilized with 0.3% Triton X-100 in PBS, blocked with 10% serum, and incubated with rabbit anti-human GDF5 polyclonal antibody (1:1000) at 4 degree C overnight. Then cells were stained with the Alexa Fluor488-conjugated Goat Anti-rabbit IgG secondary antibody (green) and counterstained with DAPI (blue). Positive staining was localized to cytoplasm.



IHC (Immunohistochemistry)

Immunochemical staining of human GDF5 in human colon carcinoma with rabbit polyclonal antibody (1:1000, formalin-fixed paraffin embedded sections).

ADDITIONAL INFORMATION

Related Product Information for anti-GDF5 antibody	GDF5 (growth and differentiation factor five), a member of the TGF-beta superfamily, binds specifically to BMPR1b, BMPR2 and ACTR2a receptors forming a heterodimeric complex, thereby inducing phosphorylation of smad1, 5, 8 and translocation to the nucleus. Variants in GDF5 are associated with human arthritis and decreased height. The SNP causes GDF5 expression to be reduced and thus increases OA susceptibility. A CPC containing the novel GDF5 mutant BB-1 may thus represent an alternative to the bioinert, supraphysiologically stiff polymethylmethacrylate cement presently used to treat osteoporotic vertebral fractures by vertebroplasty and kyphoplasty.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	224922797
NCBI GeneID	14563
NCBI Accession #	NP_032135.2
NCBI GenBank Nucleotide #	NM_008109.2
UniProt Accession #	P43027; A2ARK2
Molecular Weight	54,895 Da
NCBI Official Full Name	growth/differentiation factor 5
NCBI Official Synonym Full Names	growth differentiation factor 5
NCBI Official Symbol	Gdf5
NCBI Official Synonym Symbols	bp; brp; BMP-14; Cdmp-1
NCBI Protein Information	growth/differentiation factor 5
UniProt Protein Name	Growth/differentiation factor 5
UniProt Gene Name	Gdf5
UniProt Synonym Gene Names	Bmp14; Bp; Gdf-5; GDF-5; BMP-14
UniProt Entry Name	GDF5_MOUSE

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.

