Growth Differentiation Factor 10 (GDF10) Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	Growth Differentiation Factor 10 (GDF10), Polyclonal Antibody
Full Product Name	Cy3-Linked Polyclonal Antibody to Growth Differentiation Factor 10 (GDF10)
Product Gene Name	anti-GDF10 antibody
Product Synonym Names	BMP3b; BIP; Bone-inducing protein; Bone morphogenetic protein 3B
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Mouse
Concentration	>=100ug/ml (lot specific)
Matching Pairs	Unconjugated Antibody: GDF10 (MBS2027436) Cy3 Conjugated Antibody: GDF10 (MBS2063243)
Matching Pairs	Cy3 Conjugated Antibody: GDF10 (MBS2063243) Immunogen: GDF10 (MBS2030511)
Molecular Weight	53,122 Da
OMIM	D49493 Genomic DNA
Supply Chain Verification	Manufactured in a lab with traceable raw materials. Bulk orders can typically be prepared to the customer's specifications, please inquire.
Immunogen	GDF10 (Lys339~Arg477)
Conjugation	Cy3
Cross Reactivity	Mouse
Unconjugated Antibody	The unconjugated antibody version of this item is also available as catalog #MBS2027436
ISO Certification	Manufactured in an ISO 9001:2015 and ISO 13485:2016 Certified Laboratory.
Applications Tested/Suitable for anti-GDF10 antibody	Western Blot (WB), Immunocytochemistry (ICC), Immunohistochemistry (IHC) Formalin/Paraffin, ELISA (ELISA)
Related Product Information for anti-GDF10 antibody	MBS2063243 is an antibody targeting GDF10. Also known as Cy3-Linked Polyclonal Antibody to Growth Differentiation Factor 10 (GDF10). Reactive in Mouse. Host: Rabbit.
Other Notes	Small volumes of anti-GDF10 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for GDF10. It may not necessarily be applicable to this product.

NCBI GI #	119571046
NCBI GeneID	2662
NCBI Accession #	EAW50661.1
UniProt Secondary Accession #	Q5VSQ8; Q9UCX6

UniProt Related Accession #	P55107
NCBI Official Full Name	growth differentiation factor 10
NCBI Official Synonym Full Names	growth differentiation factor 10
NCBI Official Symbol	GDF10
NCBI Official Synonym Symbols	BIP; BMP3B; BMP-3b
UniProt Protein Name	Growth/differentiation factor 10
UniProt Synonym Protein Names	Bone morphogenetic protein 3B; BMP-3B; Bone-inducing protein; BIP
Protein Family	Growth/differentiation factor
UniProt Gene Name	GDF10
UniProt Synonym Gene Names	GDF-10; BMP-3B; BIP
NCBI Protein Information	growth/differentiation factor 10
NCBI Summary for GDF10	This gene encodes a secreted ligand of the TGF-beta (transforming growth factor-beta) superfamily of proteins. Ligands of this family bind various TGF-beta receptors leading to recruitment and activation of SMAD family transcription factors that regulate gene expression. The encoded preproprotein is proteolytically processed to generate each subunit of the disulfide-linked homodimer. This promotes neural repair after stroke. Additionally, this protein may act as a tumor suppressor and reduced expression of this gene is associated with oral cancer. [provided by RefSeq, Jul 2016]
UniProt Comments for GDF10	GDF10: is a member of the bone morphogenetic protein (BMP) family and the TGF-beta superfamily. This group of proteins is characterized by a polybasic proteolytic processing site which is cleaved to produce a mature protein containing seven conserved cysteine residues. The members of this family are regulators of cell growth and differentiation in both embryonic and adult tissues. Studies in mice suggest that plays a role in skeletal morphogenesis. [provided by RefSeq, Jul 2008] Protein type: Secreted; Secreted, signal peptide Chromosomal Location of Human Ortholog: 10q11.22 Cellular Component: extracellular space Molecular Function: cytokine activity; transforming growth factor beta receptor binding Biological Process: BMP signaling pathway; cell development; negative regulation of osteoblast differentiation; regulation of apoptosis; regulation of MAPKKK cascade; skeletal development; transforming growth factor beta receptor signaling pathway
Research Articles on GDF10	**1.** Study shows that GDF10 is down-regulated in patients with oral squamous cell carcinoma, and is an independent risk factor for overall survival. Its expression is regulated by TGFBR3 which shares the signaling inhibiting epithelial-mesenchymal transition.
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