Mouse GDF-6/BMP-13 Alexa Fluor® 700-conjugated Antibody

Antigen Affinity-purified Polyclonal Sheep IgG
Catalog Number: AF855N
100 µg

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse GDF-6/BMP-13 in direct ELISAs.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	*E. coli*-derived recombinant mouse GDF-6/BMP-13 Thr335-Arg454 Accession # P43028
Conjugate	Alexa Fluor 700 Excitation Wavelength: 675-700 nm Emission Wavelength: 723 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: *Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.*

Immunohistochemistry	Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

Growth Differentiation Factor 6 (GDF-6), also known as bone morphogenetic protein 13 (BMP-13) or cartilage-derived morphogenetic protein 2 (CDMP-2), is a member of the bone morphogenetic protein (BMP) family which belongs to the transforming growth factor β (TGF-β) superfamily. The mature GDF-6 with 120 amino acids is a homodimeric protein containing the characteristic seven conserved cysteine residues. GDF-5, GDF-6 and GDF-7, which share 80-86% identity, define a new subgroup within the BMP family. Like other TGF-β superfamily proteins, GDF-6 is highly conserved across species. At the amino acid sequence level, human and mouse GDF-6 are 99% identical. It has been reported that GDF-6 has multiple functions including regulation of myogenesis, regulation of chondrogenesis, bone morphogenesis, and neuron differentiation and survival. GDF-6 response is mediated by the formation of hetero-oligomeric complexes of type I (BMPR-IB) and type II (BMPR-II or Activin R-II) sereine/threonine kinase receptors, and the activation of Smad proteins (Smad 1, 5, and 8).

PRODUCT SPECIFIC NOTICES

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