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**Research Use Only. Not
for diagnostic or
therapeutic use.**

Storage: Aliquot and store at
-20°C. Minimize freezing and
thawing.

Product: EB08527 – Goat anti-GDF2/BMP9 antibody

*This product is one of a range of **Investigative Grade** antibodies, made against targets that have limited or no commercial antibodies available to them and for which there are no data on the expression of the protein in the range of common cell lines and tissues available to us. These antibodies are affinity purified using their peptide immunogen and are known to give low background staining in a western blot (see Application Notes below). However no additional claims are made for their ability to recognise native protein in any application.*

Target Protein

Principal Names: GDF2; growth differentiation factor 2 ; BMP-9; BMP9; bone morphogenetic protein 9

Official Gene Symbol: GDF2

Accession Number(s): NP_057288.1

Human Gene ID(s): 2658

Immunogen

Peptide with sequence C-KRWVRSDSTKSK, from the internal region of the protein sequence according to NP_057288.1

Purification

Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.

Supplied as 100 µg of purified antibody. 0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin.

Applications Tested

Peptide ELISA: antibody detection limit dilution 1:4,000. Western Blot: Preliminary experiments gave an approx 27kDa band in Human Bone Marrow, Liver, and Brain (cerebellum) lysates after 1µg/ml antibody staining. Please note that currently we cannot find an explanation in the literature for the band we observe given the calculated size of 47.3kDa according to NP_057288.1. The 27kDa band was successfully blocked by incubation with the immunizing peptide. We would appreciate any feedback from people in the field - have any results been reported with other antibodies/lysates? Have any further splice variants/modified forms been reported?

Species Reactivity

Tested:

Expected from sequence similarity: Human

Background Reference

Scharpfenecker M, van Dinther M, Liu Z, van Bezooijen RL, Zhao Q, Pukac L, Löwik CW, ten Dijke P.

BMP-9 signals via ALK1 and inhibits bFGF-induced endothelial cell proliferation and VEGF-stimulated angiogenesis.

J Cell Sci. 2007 Mar 15;120(Pt 6):964-72. Epub 2007 Feb 20.

PMID: 17311849

