

Recombinant

DGRmAb®

BMP4 (DGR15418) Rabbit mAb

db12985

Package : 10µL 20µL 50µL 100µL

Product Name : BMP4 (DGR15418) Rabbit mAb**Cat.No.:** db12985**Synonyms** : ZYME; BMP2B; OFC11; BMP2B1; MCOPS6**Application** : WB, IHC-P, ICC/IF, FC, IP**Reactivity** : Human**Host species** : Rabbit**Background**

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 protein regulates heart development and adipogenesis. Mutations in this gene are associated with orofacial cleft and microphthalmia in human patients. The encoded protein may also be involved in the pathology of multiple cardiovascular diseases and human cancers. [provided by RefSeq, Jul 2016]

Immunogen

A synthetic peptide of human BMP4

Gene ID

652

Swiss Prot

P12644

Synonyms

ZYME; BMP2B; OFC11; BMP2B1; MCOPS6

Reactivity

Human

Application

WB, IHC-P, ICC/IF, FC, IP

Recommended dilution

WB: 1:2000-1:20000

IHC-P: 1:100-1:200

ICC/IF: 1:200-1:500

FC: 1:100-1:500

IP: 1:10-1:100

Calculated MW

47 kDa

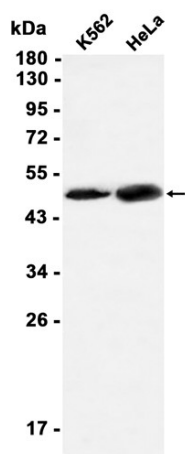
Observed MW

47 kDa

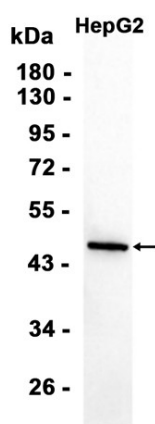
Host species

Rabbit

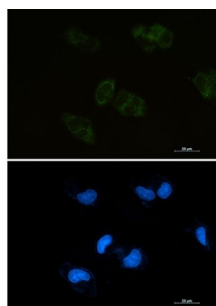
Clonality	Monoclonal
Clonality No.	DGR15418
Isotype	IgG
Purity	Affinity Purification
Conjugation	Un-conjugated
Storage Stability	Store at -20°C. Supplied in 50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40% Glycerol, 0.01% sodium azide and 0.05% BSA. Stable for 12 months from date of receipt.



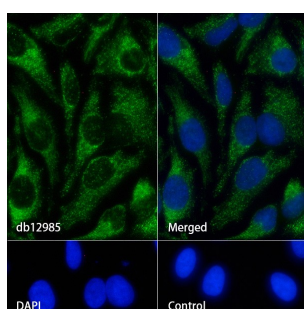
Western blot analysis of extracts from K562, HeLa cells using db12985 at 1:1000.



Western blot analysis of extracts from HepG2 cells using db12985 at 1:5000.



Immunofluorescent analysis of HepG2 cells using db12985 antibody (green), and DAPI (blue).



Immunofluorescence analysis of HeLa cells labelling BMP4 with db12985.

The cells were fixed with 4% PFA (10min, RT) followed by treatment with 0.1% Triton X-100 (10min, RT), and blocked in 1% BSA/10% normal goat serum/0.3M glycine in 0.1% PBS-Tween 20 for 1h. The cells were then incubate with db12985 (1:200) at room temprature for 1h, followed by a further incubation at room temperature for 45min with Goat Anti Rabbit IgG (H+L)-AF488 (db10005, shown in green). Nuclear DNA was labeled in blue with DAPI.

Control: Secondary antibody only.

