Recombinant DGRmAb®

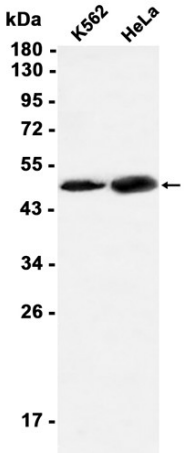
BMP4 (DGR15418) Rabbit mAb

db12985 **Package : 10μL 20μL 50μL 100μL**

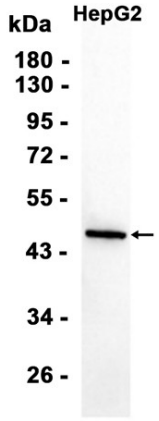
Product Name : BMP4 (DGR15418) Rabbit mAb
Cat.No.: db12985
Synonyms : ZYME; BMP2B; OFC11; BMP2B1; MCOPS6
Application : WB, IHC-P, ICC/IF, FC, IP
Reactivity : Human
Host species : Rabbit

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

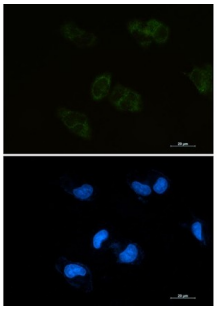
Clonality	Monoclonal
Clonality No.	DGR15418
Isotype	IgG
Purity	Affinity Purification
Conjugation	Un-conjugated
Storage Stability	Store at -20°C. Supplied in 50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40% Glycerol, 0.01% sodium azide and 0.05% BSA. Stable for 12 months from date of receipt.



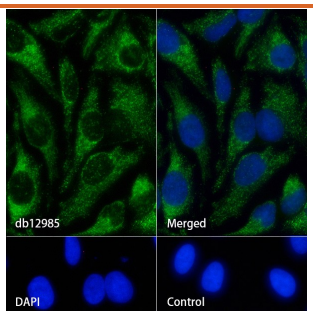
Western blot analysis of extracts from K562 and HeLa cells using db12985 at 1:1000.



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



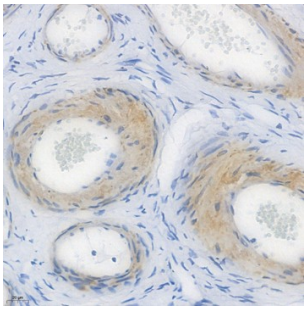
Immunofluorescent analysis of HepG2 cells using db12985 antibody (green), and DAPI (blue).



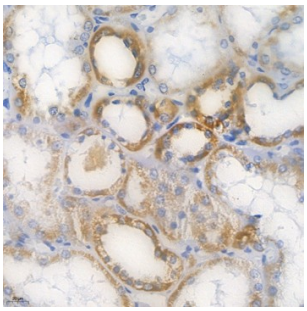
Immunofluorescence analysis of HeLa cells labelling BMP4 with db12985.

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.



Immunohistochemical analysis of paraffin-embedded human ovarian tissue labeling BMP4 with db12985. Counter stained with Hematoxylin.



Immunohistochemical analysis of paraffin-embedded human testicular tissue labeling BMP4 with db12985. Counter stained with Hematoxylin.