



# Mouse anti-Human BMPR1B monoclonal antibody, clone 3G4 (CABT-B9859)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

<b>Immunogen</b>	BMPR1B (AAH47773, 14 a.a. ~ 503 a.a) full length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
<b>Isotype</b>	IgG1
<b>Source/Host</b>	Mouse
<b>Species Reactivity</b>	Human
<b>Clone</b>	3G4
<b>Conjugate</b>	Unconjugated
<b>Applications</b>	WB, sELISA, ELISA, RNAi Knockdown
<b>Sequence Similarities</b>	KKEDGESTAPTPRPKVLRCKCHHCPEDSVNNICSTDGYCFTMIEEDDSGLPVTSGLG LEGSDFQCRDTPIPHQRRSIECCTERNECNKDLHPTLPPKNRDFVDGPIHHRALLSVT VCSLLLVLILFCYFRYKRQETRPRYSIGLEQDETYIPPGESLRDLIEQSQSSGSGSLP LLVQRTIAKQIQMVKQIGKGRYGEVWMGKWRGEKVAVKVFFTTEEASWFRETEIYQTVLM RHENILGFIADIKG
<b>Format</b>	Liquid
<b>Size</b>	100 µg
<b>Buffer</b>	In 1x PBS, pH 7.2
<b>Storage</b>	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

## BACKGROUND

**Introduction** This gene encodes a member of the bone morphogenetic protein (BMP) receptor family of transmembrane serine/threonine kinases. The ligands of this receptor are BMPs, which are members of the TGF-beta superfamily. BMPs are involved in endochondral bone formation and embryogenesis. These proteins transduce their signals through the formation of heteromeric complexes of 2 different types of serine (threonine) kinase receptors: type I receptors of about 50-55 kD and type II receptors of about 70-80 kD. Type II receptors bind ligands in the absence of type I receptors, but they require their respective type I receptors for signaling, whereas type I receptors require their respective type II receptors for ligand binding. Mutations in this gene have been associated with primary pulmonary hypertension. Several transcript variants encoding two different isoforms have been found for this gene. [provided by RefSeq, Feb 2012]

**Keywords** BMPR1B; bone morphogenetic protein receptor, type IB; ALK6; ALK-6; CDw293; bone morphogenetic protein receptor type-1B; BMPR-1B; BMP type-1B receptor; activin receptor-like kinase 6; serine/threonine receptor kinase;

## GENE INFORMATION

Entrez Gene ID	<a href="#">658</a>
UniProt ID	<a href="#">O00238</a>
Pathway	Cytokine-cytokine receptor interaction, organism-specific biosystem; Cytokine-cytokine receptor interaction, conserved biosystem; Ovarian Infertility Genes, organism-specific biosystem; Signaling by BMP, organism-specific biosystem; TGF-beta signaling pathway, organism-specific biosystem; TGF-beta signaling pathway, conserved biosystem
Function	ATP binding; SMAD binding; metal ion binding; nucleotide binding; protein binding; protein serine/threonine kinase activity; receptor activity; receptor signaling protein serine/threonine kinase activity; transforming growth factor beta receptor activity; transmembrane receptor protein serine/threonine kinase activity; transmembrane receptor protein serine/threonine kinase activity