ARG54831
anti-BMPR1B antibody

Package: 100 µl
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes BMPR1B
Tested Reactivity	Hu
Predict Reactivity	Ms, Chk
Tested Application	IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	BMPR1B
Species	Human
Immunogen	KLH-conjugated synthetic peptide corresponding to aa. 472-502 (C-terminus) of Human BMPR1B.
Conjugation	Un-conjugated
Alternate Names	ALK6; CDw293; EC 2.7.11.30; ALK-6; BMP type-1B receptor; BMPR-1B; Bone morphogenetic protein receptor type-1B; CD antigen CDw293

Application Instructions

Application table

Application	Dilution
IHC-P	Assay-dependent
WB	1:1000

Application Note: * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Positive Control: NCI-H460

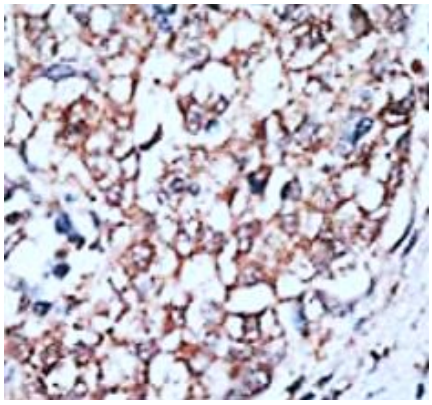
Properties

Form	Liquid
Purification	Purification with Protein G.
Buffer	PBS and 0.09% (W/V) Sodium azide
Preservative	0.09% (W/V) Sodium azide
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

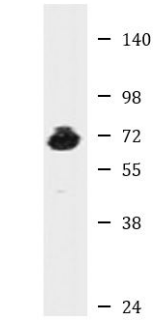
Database links	GeneID: 658 Human Swiss-port # O00238 Human
Gene Symbol	BMPR1B
Gene Full Name	bone morphogenetic protein receptor, type IB
Background	This gene encodes a member of the bone morphogenetic protein (BMP) receptor family of transmembrane serine/threonine kinases. The ligands of this receptor 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]
Function	On ligand binding, forms a receptor complex consisting of two type II and two type I transmembrane serine/threonine kinases. Type II receptors phosphorylate and activate type I receptors which autophosphorylate, then bind and activate SMAD transcriptional regulators. Receptor for BMP7/OP-1 and GDF5. Positively regulates chondrocyte differentiation through GDF5 interaction (By similarity). [UniProt]
Research Area	Developmental Biology antibody; Gene Regulation antibody; Signaling Transduction antibody
Calculated Mw	57 kDa
Cellular Localization	Membrane; Single-pass type I membrane protein

Images



ARG54831 anti-BMPR1B antibody IHC-P image

Immunohistochemistry: Formalin-fixed and paraffin-embedded Human cancer tissue stained with ARG54831 anti-BMPR1B antibody.



ARG54831 anti-BMPR1B antibody WB image

Western blot: NCI-H460 cell lysate stained with ARG54831 anti-BMPR1B antibody.