

Datasheet for ABIN7354761
anti-BMP5 antibody (C-Term) (DyLight 488)



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1 Publication

Overview

Quantity:	100 µg
Target:	BMP5
Binding Specificity:	AA 332-365, C-Term
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This BMP5 antibody is conjugated to DyLight 488
Application:	Flow Cytometry (FACS)

Product Details

Purpose:	Anti-Human BMP5 DyLight® 488 conjugated Antibody
Immunogen:	A synthetic peptide corresponding to a sequence at the C-terminus of human BMP5, different from the related mouse sequence by three amino acids.
Sequence:	HQDSSRMSSV GDYNTSEQKQ ACKKHELYVS FRDL
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins.
Characteristics:	Anti-Human BMP5 DyLight® 488 conjugated Antibody -Dyl488. Tested in Flow Cytometry applications. This antibody reacts with Human.

Target Details

Target:	BMP5
Alternative Name:	BMP5 (BMP5 Products)
Background:	Synonyms: Bone morphogenetic protein 5, BMP-5, BMP5 Tissue Specificity: Expressed in the lung and liver. Background: Bone morphogenetic protein 5 is a protein that in humans is encoded by the BMP5 gene. This gene encodes a member of the bone morphogenetic protein family which is part of the transforming growth factor-beta superfamily. The superfamily includes large families of growth and differentiation factors. Bone morphogenetic proteins were originally identified by an ability of demineralized bone extract to induce endochondral osteogenesis in vivo in an extraskeletal site. These proteins are synthesized as prepropeptides, cleaved, and then processed into dimeric proteins. And this protein may act as an important signaling molecule within the trabecular meshwork and optic nerve head, and may play a potential role in glaucoma pathogenesis. This gene is differentially regulated during the formation of various tumors.
Molecular Weight:	39 kDa
Gene ID:	653
UniProt:	P22003
Pathways:	Regulation of Hormone Metabolic Process , Regulation of Hormone Biosynthetic Process

Application Details

Application Notes:	Flow Cytometry (Fixed), 1-3 µg/1x10 ⁶ cells1. "Entrez Gene: BMP5 bone morphogenetic protein 5". 2. Beck HN, Drahushuk K, Jacoby DB, Higgins D, Lein PJ (Mar 2003). "Bone morphogenetic protein-5 (BMP-5) promotes dendritic growth in cultured sympathetic neurons". BMC Neurosci 2: 12. 3. Hahn GV, Cohen RB, Wozney JM, Levitz CL, Shore EM, Zasloff MA, Kaplan FS (Dec 1992). "A bone morphogenetic protein subfamily: chromosomal localization of human genes for BMP5, BMP6, and BMP7". Genomics 14 (3): 759-62.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	Lot specific
Buffer:	Each vial contains 50 % glycerol, 0.9 % NaCl, 0.2 % Na2HPO4, 0.02 % Sodium azide.

Handling

Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	At -20°C for one year from date of receipt. Avoid repeated freezing and thawing. Protect from light.

Publications

Product cited in:	Wang, Xue, Zhao, Liu, Ma, Ma: "Form-deprivation myopia induces decreased expression of bone morphogenetic protein-2, 5 in guinea pig sclera." in: International journal of ophthalmology , Vol. 8, Issue 1, pp. 39-45, (2015) (PubMed).
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