

Pleiotrophin(12Z12) Rabbit Monoclonal Antibody



产品详情

产品货号	产品名称	储存条件	保质期
IM37156	Pleiotrophin(12Z12)Rabbit Monoclonal Antibody	-20℃	1年

产品概述:

产品货号	IM37156
别名	HARP;HBBM;HBGAM;HBGF8;HBNF;HBNF1;Heparin binding growth factor 8; NEGF1;Neurite growth promoting factor 1;OSF1;Pleiotrophin;PTN.
产品名称	Pleiotrophin(12Z12)Rabbit Monoclonal Antibody
纯度	Affinity-chromatography
类别	抗体产品
基因名称	PTN
蛋白名称	HBNF1, NEGF1
推荐应用	WB
反应种属	Human, Mouse, Rat
存储缓冲液	Supplied in 50mM Tris-Glycine (pH 7.4), 0.15M NaCl, 40%Glycerol, 0.01% New type preservative N and 0.05% BSA.
Human Gene ID	5764
Human Swissprot No.	P21246
免疫原	A synthetic peptide of human PTN

稀释度	WB 1:1000
参考分子量	19kDa
预测分子量	19kDa
运输及保存条件	Biological ice bag transportation. Store at -20°C for at least 12 months (Do not lower than 25°C). Avoid freeze/thaw cycles.
宿主	Rabbit
同种型	IgG
注意事项	Pleiotrophin Antibody is for research use only and not for use in diagnostic or therapeutic procedures.
组织表达	Osteoblast and brain.
细胞定位	Secreted
功能	Secreted growth factor that mediates its signal through cell-surface proteoglycan and non proteoglycan receptors (PubMed:16814777, PubMed:11278720, PubMed:19141530). Binds cell surface proteoglycan receptor via their chondroitin sulfate (CS) groups (PubMed:26896299, PubMed:27445335). Thereby regulates many processes like cell proliferation, cell survival, cell growth, cell differentiation and cell migration in several tissues namely neuron and bone (PubMed:1733956, PubMed:1768439, PubMed:11278720, PubMed:19141530, PubMed:27445335, PubMed:30667096, PubMed:19442624). Also plays a role in synaptic plasticity and learning-related behavior by inhibiting long-term synaptic potentiation (By similarity). Binds PTPRZ1, leading to neutralization of the negative charges of the CS chains of PTPRZ1, inducing PTPRZ1 clustering, thereby causing the dimerization and inactivation of its phosphatase activity leading

功能

to increased tyrosine phosphorylation of each of the PTPRZ1 substrates like ALK, CTNBN1 or AFAP1L2 in order to activate the PI3K-AKT pathway (PubMed:17681947, PubMed:27445335, PubMed:3066709, PubMed:16814777, PubMed:10706604). Through PTPRZ1 binding controls oligodendrocyte precursor cell differentiation by enhancing the phosphorylation of AFAP1L2 in order to activate the PI3K-AKT pathway (PubMed:27445335, PubMed:30667096). Forms a complex with PTPRZ1 and integrin alpha-V/beta-3 (ITGAV:ITGB3) that stimulates endothelial cell migration through SRC dephosphorylation and activation that consequently leads to ITGB3 'Tyr-773' phosphorylation (PubMed:19141530). In adult hippocampus promotes dendritic arborization, spine development, and functional integration and connectivity of newborn granule neurons through ALK by activating AKT signaling pathway (By similarity). Binds GPC2 and chondroitin sulfate proteoglycans (CSPGs) at the neuron surface, leading to abrogation of binding between PTPRS and CSPGs and neurite outgrowth promotion (By similarity). Binds SDC3 and mediates bone formation by recruiting and attaching osteoblasts/osteoblast precursors to the sites for new bone deposition (By similarity). Binds ALK and promotes cell survival and cell proliferation through MAPK pathway activation (PubMed:11278720). Inhibits proliferation and enhances differentiation of neural stem cells by inhibiting FGF2-induced fibroblast growth factor receptor signaling pathway (By similarity). Mediates regulatory mechanisms in normal hemostasis and in hematopoietic regeneration and in maintaining the balance of myeloid and lymphoid regeneration (By similarity). In addition may play a role in the female reproductive system, auditory response and the progesterone-induced decidualization pathway (By similarity).

Clonality	Monoclonal
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