

产品名称: Pleiotrophin (12Z12) Rabbit Monoclonal Antibody

产品货号: AMRe16264

产品概述 (Summary)

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|-------------------|---|
| 描述(Description) | Recombinant rabbit monoclonal antibody |
| 宿主(Host) | Rabbit |
| 应用(Application) | WB,IP |
| 种属反应(Reactivity) | Human,Mouse,Rat |
| 偶联物(Conjugation) | Unconjugated |
| 修饰(Modification) | Unmodified |
| 同种型(Isotype) | IgG |
| 克隆(Clonality) | Monoclonal |
| 剂型(Form) | Liquid |
| 保存条件(Storage) | Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles. |
| 储存溶液(Buffer) | Supplied in 50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40%Glycerol, 0.01% New type preservative N and 0.05% protective protein. |
| 纯化 (Purification) | Affinity purification |

产品应用(Application)

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|-----------------------|-------------------------------|
| 稀释比(Dilution Ratio) | WB 1:1000-1:5000,IP 1:20-1:50 |
| 分子量(Molecular Weight) | 19kDa |

抗原信息(Antigen Information)

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|-----------------------|--|
| 基因名(Gene Name) | PTN |
| 别名(Alternative Names) | HARP; HBBM; HBGAM; HBGF8; HBNF; HBNF1; Heparin binding growth factor 8; NEGF1; Neurite growth promoting factor 1; OSF1; Pleiotrophin; PTN; |
| 基因 ID(Gene ID) | 5764.0 |
| SwissProt ID | P21246 |
| 免疫原(Immunogen) | A synthetic peptide of human PTN |

研究背景 (Background)

Heparin binding mitogenic protein. Has neurite extension activity. 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 to increased tyrosine phosphorylation of each of the PTPRZ1 substrates like ALK, CTNNB1 or AFAP1L2 in order to activate the PI3K-AKT pathway (PubMed:17681947, PubMed:27445335, PubMed:30667096, 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).

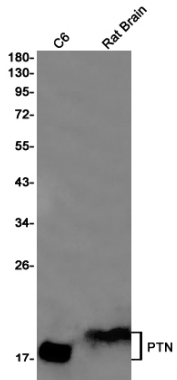
研究领域 (Research Area)

Neuroscience

注意事项 (Note)

For research use only.

图片 (Image Data)



Western blot detection of PTN in C6,Rat Brain cell lysates using PTN antibody(1:1000 diluted).

EnkiLife 优势产品推荐

| 产品类别 | 产品货号 | 产品名称 |
|-----------------------------|----------|--|
| WB 解决方案 | RA10020 | 2h 极速 WB 即用型全流程试剂盒 |
| | RA10021 | 4h 快速 WB 即用型全流程试剂盒 |
| | RA10042 | 5h 畅享版 WB 全流程试剂盒 |
| | RA10037 | 校准级彩色预染蛋白 Marker (8-180kDa) |
| | RA10038 | 校准级彩色预染蛋白 Marker (10-250kDa) |
| | RA10039 | 校准级高分子彩色预染蛋白 Marker (25-400kDa) |
| TSA 多重荧光染色试剂盒 | RA10008 | TSA 双标三色多重荧光染色试剂盒 (mIHC) |
| | RA10009 | TSA 三标四色多重荧光染色试剂盒 (mIHC) |
| | RA10010 | TSA 四标五色多重荧光染色试剂盒 (mIHC) |
| | RA10011 | TSA 五标六色多重荧光染色试剂盒 (mIHC) |
| | RA10012 | TSA 六标七色多重荧光染色试剂盒 (mIHC) |
| IHC 检测试剂盒 | RA10006 | HRP Anti-Mouse/Rabbit IHC Detection System |
| | RA10007 | Polymer-HRP Anti-Mouse/Rabbit IHC Detection System |
| 抗体标记试剂盒 | RE80004p | 辣根过氧化物酶(HRP)抗体标记试剂盒 |
| | RE80002q | Sulfo-NHS-生物素标记试剂盒 |
| | RE80007p | Cy3 荧光素标记试剂盒 |
| | RE80011p | Fluor488 荧光素标记试剂盒 |
| | RE80017p | Fluor750 荧光素标记试剂盒 |
| | RE80005p | 藻红蛋白(R-PE) 抗体快速标记试剂盒 |
| | RE80040 | PE-Cy7 串联染料抗体快速标记试剂盒 |
| 稳转细胞系构建服务 (免费赠送全膜 WB 验证) | TS-0001 | 过表达稳转细胞系构建 |
| | TS-0002 | 敲低稳转细胞系构建 |
| | TS-0003 | 敲除细胞系构建 |

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