Active Ephrin A2 (EFNA2)

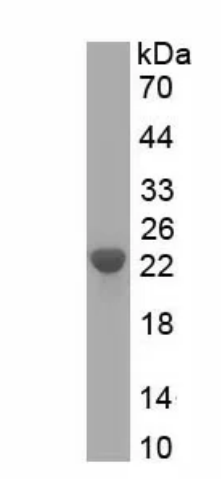
Catalog#:PEH12923

概述（Summary）

别称（Alternative Names）	ELF-1; EPLG6; HEK7-L; LERK6; EPH-related receptor tyrosine kinase ligand 6; HEK7 ligand
纯度（Purity）	Greater than 90% as determined by reducing SDS-PAGE.
内毒素（Endotoxin level）	Please contact with the lab for this information
蛋白构建（Construction）	【Asn45-Ser213】
Accession #	O43921
表达宿主（Host）	E.coli
种属（Species）	Homo sapiens (Human)
预测分子量（Predicted MW）	22.7 kDa
制剂（Form）	Lyophilized from a 0.2 μm filtered solution of PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
运输方式（Shipping）	The product is shipped with ice bag. Upon receipt, store it immediately at the temperature listed below.
稳定性&储存（Stability &Storage）	12 months at -20°C to -80°C in lyophilized state.6 months at -20°C to -80°C under sterile conditions after reconstitution.7-10 days at 2°C to 8°C under sterile conditions after reconstitution.Please minimize freeze-thaw cycles.
复溶（Reconstitution）	Reconstitute in 10mM PBS (pH7.4) to a concentration of 0.1-1.0 mg/mL. Do not vortex.
背景介绍（References）	Cell surface GPI-bound ligand for Eph receptors, a family of receptor tyrosine kinases which are crucial for migration, repulsion and adhesion during neuronal, vascular and epithelial development. Binds promiscuously Eph receptors residing on adjacent cells, leading to contact-dependent bidirectional signaling into neighboring cells. The signaling pathway downstream of the receptor is referred to as forward signaling while the signaling pathway downstream of the ephrin ligand is referred to as reverse signaling. With the EPHA2 receptor may play a role in bone remodeling through regulation of osteoclastogenesis and

osteoblastogenesis.

电泳图（SDS-PAGE image）



Greater than 90% as determined by reducing SDS-PAGE.

活性图（Bioactivity image）

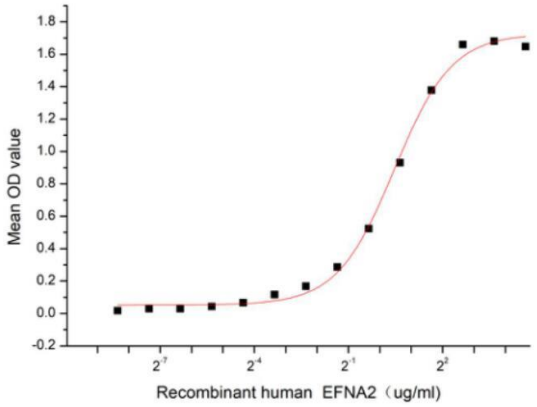


Figure 1. The binding activity of recombinant human EFNA2 and recombinant rat ADAM10

Ephrin A2 (EFNA2) is a cell surface-associated protein belonging to the Ephrin family, which are involved in intercellular communication and cell localization. EFNA2 is mainly expressed in tissues including the brain, heart, lung, kidney and pancreas. And this protein is involved in regulating a variety of biological processes, including cell migration, cell differentiation, and tissue boundary formation, by interacting with Eph receptors. It aslo plays a significant role in the development and maintenance of the cardiovascular system, as well as in the regulation of synaptic plasticity and neuronal circuitry in the brain. A Disintegrin And Metalloprotease 10 (ADAM10), a disintegrin and metalloproteinase, can cleave EFNA2, potentially altering the activity of EFNA2 or its interaction with Eph receptors, thus a functional binding ELISA assay was conducted to detect the interaction of recombinant human EFNA2 and recombinant rat ADAM10. Briefly, biotin-linked EFNA2 were diluted serially in PBS, with 0.01% BSA (pH 7.4). Duplicate samples of 100 ul were then transferred to ADAM10-coated microtiter wells and incubated for 1h at 37℃. Wells were washed with PBST 3 times and incubation with Streptavidin-HRP for 30min, then wells were aspirated and washed 5 times. With the addition of substrate solution, wells were incubated 15-25 minutes at 37℃. Finally, add 50 µl stop solution to the wells and read at 450 nm immediately. The binding activity of EFNA2 and ADAM10 was shown in Figure 1, the EC50 for this effect is 1.38 ug/mL.

注意事项（Note）

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