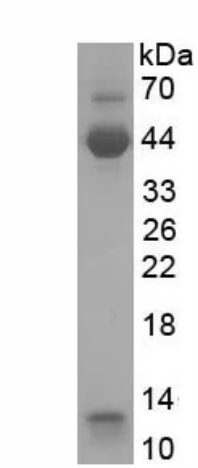
Active Inhibin Beta A (INHbA)

Catalog#:PHH12523

概述（Summary）

别称（Alternative Names）	INH-BA; INHB-A; EDF; FRP; Activin A,Activin AB Alpha Polypeptide; Activin beta-A chain; Erythroid differentiation protein
纯度（Purity）	Greater than 95% as determined by reducing SDS-PAGE.
内毒素（Endotoxin level）	Please contact with the lab for this information
蛋白构建（Construction）	【Ser21-Ser426】
Accession #	P08476
表达宿主（Host）	293F
种属（Species）	Homo sapiens (Human)
预测分子量（Predicted MW）	46.6 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）	Inhibins and activins inhibit and activate, respectively, the secretion of follitropin by the pituitary gland. Inhibins/activins are involved in regulating a number of diverse functions such as hypothalamic and pituitary hormone secretion, gonadal hormone secretion, germ cell development and maturation, erythroid differentiation, insulin secretion, nerve cell survival, embryonic axial development or bone growth, depending on their subunit composition. Inhibins appear to oppose the functions of activins.

电泳图（SDS-PAGE image）



Greater than 95% as determined by reducing SDS-PAGE.

活性图（Bioactivity image）

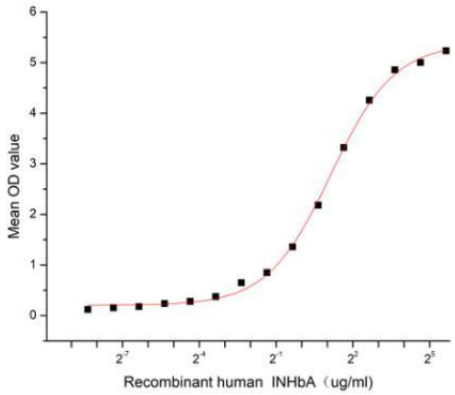


Figure 1. The binding activity of recombinant human INHbA and recombinant rat INHbB

Inhibin Beta A (INHbA) is a member of the transforming growth factor-beta (TGFb) superfamily that exerts a variety of biological functions, including immune response, sex determination, stem cell differentiation, and control of cellular migration and proliferation. Besides INHbA is aberrantly expressed in multiple tumor types, including breast, lung, esophageal, bladder, and colorectal cancers, and this overexpression is positively correlated with poor prognosis. Mature INHbA homodimerizes to form activin A, which has roles in the immune response, cell differentiation, and glucose metabolism, and heterodimerizes with INHbB to form inhibin, a complex that negatively regulates gonadal stromal cell proliferation and has tumor suppressor activity. Thus a functional binding ELISA assay was conducted to detect the interaction of recombinant human INHbA and recombinant rat INHbB. Briefly, biotin-linked INHbA were diluted serially in PBS, with 0.01% BSA (pH 7.4). Duplicate samples of 100ul were then transferred to INHbB-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 recombinant human INHbA and recombinant rat INHBB was shown in Figure 1, the EC50 for this effect is 2.2 ug/mL.

注意事项（Note）

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