

Human Angiopoietin 2 protein, His tag

Cat. No. GTX00212-pro

Applications Functional Assay**Species** Human**Package**

10 µg

Applications

Application Note

Angiopoietin is part of a family of vascular growth factors that play a role in embryonic and postnatal angiogenesis. Angiopoietin cytokines are involved with controlling microvascular permeability, vasodilation, and vasoconstriction by signaling smooth muscle cells surrounding vessels. There are now four identified angiopoietins: ANGPT1, ANGPT2, ANGPT3, ANGPT4. Angiopoietin 2 (ANGPT2) promotes cell death and disrupts vascularization. Yet, when it is in conjunction with vascular endothelial growth factors, or VEGF, it can promote neo-vascularization. Besides, TEK Tyrosine Kinase (Tie2) has been identified as an interactor of ANGPT2, thus a binding ELISA assay was conducted to detect the interaction of recombinant human ANGPT2 and recombinant human Tie2. Briefly, ANGPT2 were diluted serially in PBS, with 0.01% BSA (pH 7.4). Duplicate samples of 100 µl were then transferred to Tie2-coated microtiter wells and incubated for 2h at 37°C. Wells were washed with PBST and incubated for 1h with anti-ANGPT2 pAb, then aspirated and washed 3 times. After incubation with HRP labelled secondary antibody, wells were aspirated and washed 3 times. With the addition of substrate solution, wells were incubated 15-25 minutes at 37°C. Finally, add 50 µl stop solution to the wells and read at 450nm immediately. The binding activity of ANGPT2 and Tie2 was in a dose dependent manner.

Observed MW (kDa) 18 kDa.

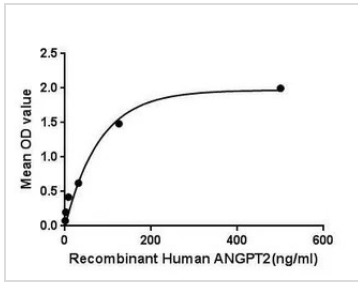
Properties

Form Lyophilized powder**Buffer** Reconstitute with 20mM Tris and 150mM NaCl to 0.1-1.0mg/ml. Do not vortex. Lyophilized from 20mM Tris, 150mM NaCl, 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose.**Preservative** ProClin 300**Storage** For short-term storage (1-2 weeks), store at 4°C. For long-term storage, store at -20°C or below. After reconstitution, keep as concentrated solution. Avoid freeze-thaw cycles.**Region/Sequence** N-terminal His-Tag; Lys24~Leu165 (NP_001112359.1)**Expression System** E. coli**Purity** > 95%**Endotoxin** < 1 EU/µg**Conjugation** Unconjugated**Note** For laboratory use only. Not for any clinical, therapeutic, or diagnostic use in humans or animals. Not for animal or human consumption.

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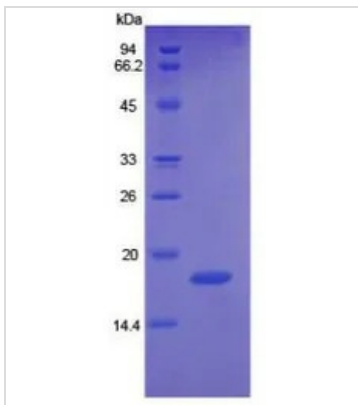
Date 2025 / 12 / 31 Page 1 of 2

DATA IMAGES



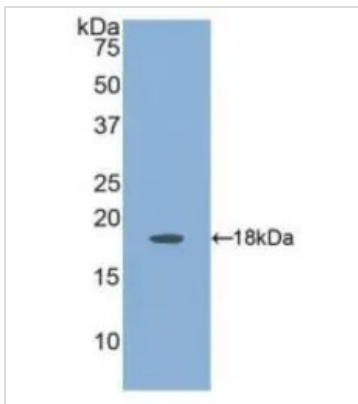
GTx00212-pro Functional Assay Image

Functional ELISA analysis of GTx00212-pro Human Angiopoietin 2 protein which can bind immobilized Tie2 protein.



GTx00212-pro Image

SDS-PAGE analysis of GTx00212-pro Human Angiopoietin 2 protein.



GTx00212-pro Image

WB analysis of GTx00212-pro Human Angiopoietin 2 protein.



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