

Functional Angiotensin-2 (human) Antibody, mAb (recombinant) (blocking)(preservative free)

Catalog # ADP0005

Specification

Functional Angiotensin-2 (human) Antibody, mAb (recombinant) (blocking)(preservative free) - Product Information

Application	E
Primary Accession	Q15123
Reactivity	Human
Host	CHO Cells
Clonality	Monoclonal
Isotype	Human IgG2λ.
Gene Source	Human
Application Note	,E,Functional Applicational, Inhibits the binding of human angiotensin-2 to human Tie-2. ND50= 600-800ng/ml (for 10ng/ml of Angiotensin-2),ND50 50% neutralizing dose of antibody for a given concentration of ligand (here human Angiotensin-2). 56919 anti-Angiotensin-2 (human), mAb (rec.) (blocking) (Angy-1-4) is composed of human variable regions (VH and VL) (λ-chain) of immunoglobulin fused to the human IgG2 Fc domain.
Calculated MW Description	56919 anti-Angiotensin-2 (human), mAb (rec.) (blocking) (Angy-1-4) is composed of human variable regions (VH and VL) (λ-chain) of immunoglobulin fused to the human IgG2 Fc domain.

Functional Angiotensin-2 (human) Antibody, mAb (recombinant) (blocking)(preservative free) - Additional Information

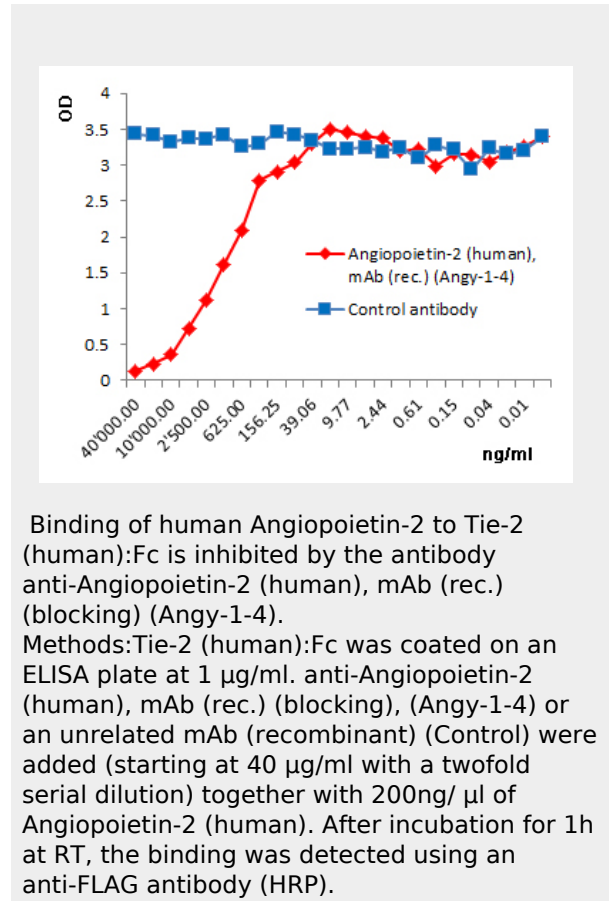
Gene ID 285

Other Names

Ang-2; Ang2; Angpt2; Agpt2

Target/Specificity

Recognizes human angiotensin-2. Does not recognize mouse angiotensin-2 and human angiotensin-1.



Functional Angiotensin-2 (human) Antibody, mAb (recombinant) (blocking)(preservative free) - Background

Angiotensin-1 (Ang-1) and Angiotensin-2 (Ang-2) are closely related secreted ligands which bind with similar affinity to Tie-2. Tie-2 and angiotensins have been shown to play critical roles in embryogenic angiogenesis and in maintaining the integrity of the adult vasculature. Ang-1 activates Tie-2 signaling on endothelial cells to promote chemotaxis, cell survival, cell sprouting, vessel growth and stabilization. Ang-2 has been identified as a secreted protein ligand of Tie-2 and has alternatively been reported to be an antagonist for Ang-1 induced Tie-2 signaling as well as an agonist for Tie-2 signaling, depending on the cell context. anti-Angiotensin-2 (human), mAb (rec.) (blocking) (Angy-1-4) is an antibody developed by antibody phage display technology using a human naive antibody gene library. These

Format

Liquid. In PBS containing 10% glycerol and 0.02% sodium azide.

Reconstitution & Storage

Stable for at least 1 year after receipt when stored at -20°C.

Precautions

Functional Angiopoietin-2 (human) Antibody, mAb (recombinant) (blocking)(preservative free) is for research use only and not for use in diagnostic or therapeutic procedures.

Functional Angiopoietin-2 (human) Antibody, mAb (recombinant) (blocking)(preservative free) - Protein Information

Name ANGPT2

Function

Binds to TEK/TIE2, competing for the ANGPT1 binding site, and modulating ANGPT1 signaling. Can induce tyrosine phosphorylation of TEK/TIE2 in the absence of ANGPT1. In the absence of angiogenic inducers, such as VEGF, ANGPT2-mediated loosening of cell-matrix contacts may induce endothelial cell apoptosis with consequent vascular regression. In concert with VEGF, it may facilitate endothelial cell migration and proliferation, thus serving as a permissive angiogenic signal.

Cellular Location

Secreted.

Functional Angiopoietin-2 (human) Antibody, mAb (recombinant) (blocking)(preservative free) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

libraries consist of scFv (single chain fragment variable) composed of VH (variable domain of the human immunoglobulin heavy chain) and VL (variable domain of the human immunoglobulin light chain) connected by a polypeptide linker. The antibody fragments are displayed on the surface of filamentous bacteriophage (M13). This scFv was selected by affinity selection on antigen in a process termed panning. Multiple rounds of panning are performed to enrich for antigen-specific scFv-phage. Monoclonal antibodies are subsequently identified by screening after each round of selection. The selected monoclonal scFv is cloned into an appropriate vector containing a Fc portion of interest and then produced in mammalian cells to generate an IgG like scFv-Fc fusion protein.