

**Functional Angiotensin-2 Antibody, mAb (recombinant) (blocking)(preservative free)**  
Catalog # ADP0007

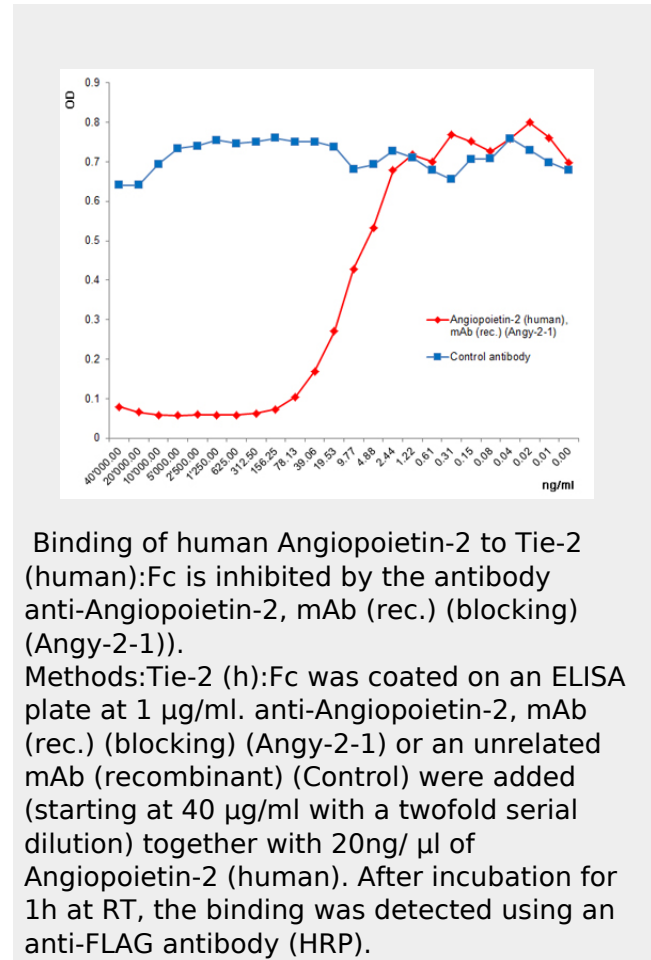
**Specification**

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

Application  
Primary Accession  
Reactivity  
Host  
Clonality  
Isotype  
Gene Source  
Application Note

**E**  
[O35608](#)  
**Human, Mouse**  
**CHO Cells**  
**Monoclonal**  
**Mouse IgG2bλ.**  
**Human**  
**,E,Functional Appl**  
**icational,Inhibits**  
**the binding of**  
**mouse**  
**angiotensin-2 to**  
**mouse Tie-2.**  
**ND50=**  
**50-60ng/ml (for**  
**10ng/ml of mouse**  
**Angiotensin-2) ,I**  
**nhibits the**  
**binding of human**  
**angiotensin-2 to**  
**human Tie-2.**  
**ND50= 8-12ng/ml**  
**(for 10ng/ml of**  
**human Angiotensin-2) ,ND50 50%**  
**neutralizing dose**  
**of antibody for a**  
**given**  
**concentration of**  
**ligand (here**  
**Angiotensin-2).**  
**56576**  
**anti-Angiotensin-**  
**2, mAb (rec.)**  
**(blocking)**  
**(Angy-2-1) is**  
**composed of**  
**human variable**  
**regions (VH and**  
**VL) (λ-chain) of**  
**immunoglobulin**  
**fused to the**  
**mouse IgG2b Fc**  
**domain.**

Calculated MW  
Description



**Functional Angiotensin-2 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

**Functional Angiopoietin-2 Antibody,mAb (recombinant) (blocking)(preservative free) - Additional Information****Gene ID** 11601**Other Names**

Ang-2; Ang2; Angpt2; Agpt2

**Target/Specificity**

Recognizes human and mouse angiopoietin-2. Does not detect human angiopoietin-1.

**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 Antibody,mAb (recombinant) (blocking)(preservative free) is for research use only and not for use in diagnostic or therapeutic procedures.

**Functional Angiopoietin-2 Antibody,mAb (recombinant) (blocking)(preservative free) - Protein Information****Name** Angpt2**Synonyms** Agpt2**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 (By similarity).

**Cellular Location**

Secreted.

**Tissue Location**

Expressed only at sites of vascular

cell context. anti-Angiopoietin-2, mAb (rec.) (blocking) (Angy-2-1) is an antibody developed by antibody phage display technology using a human naive antibody gene library. These 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.

remodeling.

**Functional Angiopoietin-2 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](#)