

AG-40A-0016

29-Oct-2010

**Angiotensin-2 (human) (rec.)**

[Ang-2; Ang2; Angpt2]

AG-40A-0016-C010

10 µg

AG-40A-0016-C050

50 µg

Source/Host

CHO cells

MW

~65kDa (SDS-PAGE)

Sequence

Human angiotensin-2 (aa 19-496) is fused at the N-terminus to a FLAG<sup>®</sup>-tag.

**Handling / Storage**

Shipping

BLUE ICE

Short Term Storage

+4°C

Long Term Storage

-20°C

After opening, prepare aliquots and store at -20°C. Avoid freeze/thaw cycles.

**Use / Stability**

Working aliquots are stable for up to 3 months when stored at -20°C.

MSDS available at [www.adipogen.com](http://www.adipogen.com) or upon request.

**Product Specifications**

Specificity

Binds to human Tie-2.

Biological Activity

Induces phosphorylation of Tie-2 in Tie-2 expressing stable COS cells but not in HUVECs. The protein forms mainly tetrameric structures.

Purity

≥90% (SDS-PAGE)

Formulation

Liquid. 0.2µm filtered solution in PBS containing 0.02% CHAPS.

Concentration

0.2mg/ml

Endotoxin Content

<0.1EU/µg purified protein (LAL test; Lonza).

**Other Product Data**

UniProt link O15123: Angiotensin-2 (human)

FLAG is a registered trademark of Sigma-Aldrich Co.

**WARNING:** Intended for research use only. This product is not intended or approved for human, diagnostics, therapeutic or veterinary use. Use of this product for human or animal testing is extremely hazardous and may result in disease, severe injury, or death. **MATERIAL SAFETY DATA:** Review the complete Material Safety Data Sheet before use.

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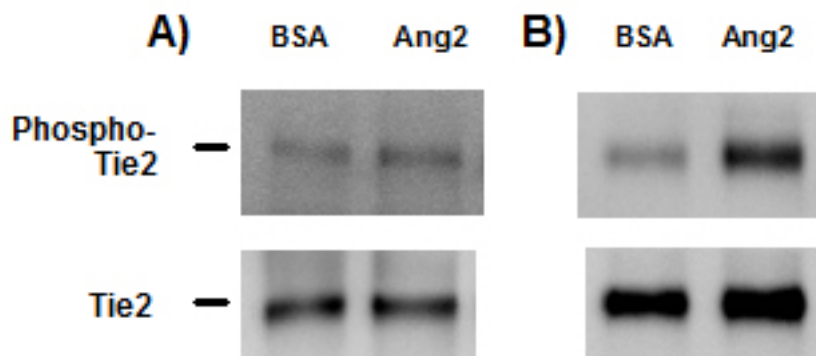
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**Product Description**

Angiopoietin-1 (Ang-1) and angiopoietin-2 (Ang-2) are closely related secreted ligands which bind with similar affinity to Tie-2. Tie-2 and angiopoietins 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.



**Figure 1:** Induction of Tie-2 phosphorylation in primary cultured HUVECs .

Serum-starved human umbilical vein endothelial cells (A) and ectopically Tie-2 expressing stable COS cells (B) were treated with 200 ng/ml of BSA or 200 ng/ml of Angiopoietin-2 (human) (rec.) (Prod. No. AG-40A-0016) for 15 min. The phosphorylation of Tie-2 (Phospho-Tie-2) was measured after immunoprecipitation. Angiopoietin-2 (human) (rec.) induces Tie-2 phosphorylation in Tie-2 expressing stable COS cells, but not in HUVECs.

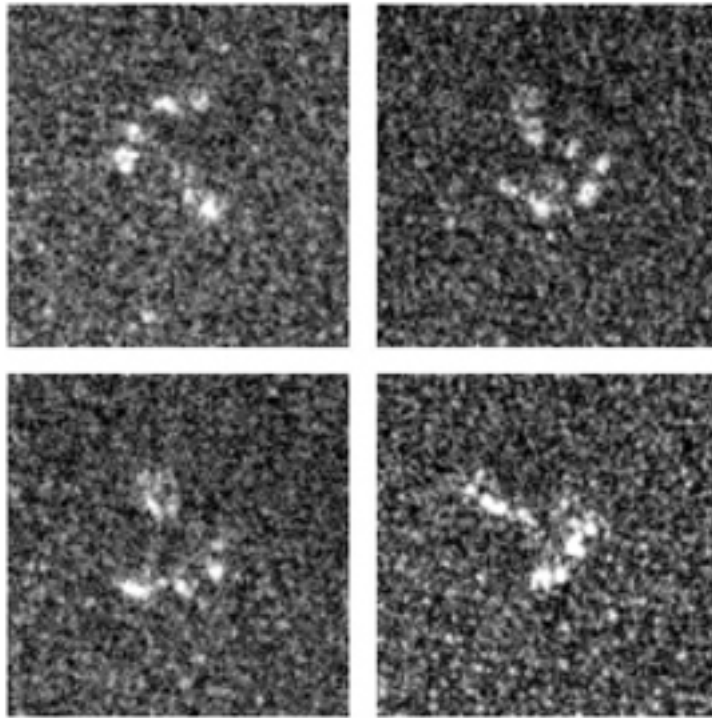
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**Figure 2:** Glycerol spraying/low-angle rotary metal-shadowed specimens were imaged by transmission electron microscopy. Ang2 form mainly tetrameric structures, respectively.

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