



20150119ML

Anti-Human Angiopoietin-1 [Ang-1] (#26B10)

**FOR RESEARCH ONLY! NOT FOR HUMAN USE!**

Cat.-no.:	101-M100
Size:	100 µg
Lot. No.:	According to product label

Preparation: This antibody was produced from a hybridoma (mouse myeloma fused with spleen cells from a mouse immunized with purified human recombinant human Angiopoietin-1). The IgG2 fraction of the tissue culture supernatant was purified by Protein G affinity chromatography.

Target Background

Synonyms (Target):	ANGPT1; AGP1; AGPT; ANG1
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Angiopoietin1 (Ang1) and Angiopoietin2 (Ang2) are two closely related secreted ligands which bind with similar affinity to Tie2, a receptor tyrosine kinase with immunoglobulin and epidermal growth factor homology domains expressed primarily on endothelial cells and early hematopoietic cells. Tie2 and angiopoietins have been shown to play critical roles in embryonic angiogenesis and in maintaining the integrity of the adult vasculature. Ang1 cDNA encodes a 498 amino acid (aa) residue precursor protein that contains a coiledcoiled domain near the aminotermus and a fibrinogen like domain at the Cterminus. Human Ang 1 shares approximately 97% and 60% aa sequence identity with mouse Ang1 and human Ang2, respectively. Ang1 activates Tie2 signaling on endothelial cells to promote chemotaxis, cell survival, cell sprouting, vessel growth and stabilization. Ang2 has alternatively been reported to be an antagonist for Ang1 induced Tie2 signaling as well as an agonist for Tie2 signaling, depending on the cell context.

Database References Target

Protein RefSeq:	NP_001137.2
Uniprot ID:	Q15389
mRNA RefSeq:	NM_001146

Product Specifications

Host	Mouse
Reactivity against	Human
Clonality	Monoclonal Antibody
Clone	(#26B10)
Isotype	IgG2
Purification	Protein G chromatography
Antigen	recombinant human Angiopoietin-1
Formulation	lyophilized
Reconstitution buffer	PBS (sterile)

Reconstitution: Reconstitute the antibody with 200 µl sterile PBS and the final concentration is 500 µg/ml.

Stability: Lyophilized samples are stable for 2 years from date of receipt when stored at -70°C. Reconstituted antibody can be aliquoted and stored frozen at < -20 °C for at least for six months without detectable loss of activity.

Remarks: This antibody recognizes human Ang1 in western blot without crossreactivity with human Ang2. Reactivity to Ang1 of other species is not tested.

**AVOID REPEATED FREEZE AND THAW CYCLES!**

Applications

The antibody can be used within the following applications:
WB, IHC

Recommended usage:

Western blotting: at 1:1000 - 2000

IHC: 1:50 – 400

NOTE: OPTIMAL DILUTIONS SHOULD BE DETERMINED BY EACH LABORATORY FOR EACH APPLICATION!



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Application/Handling

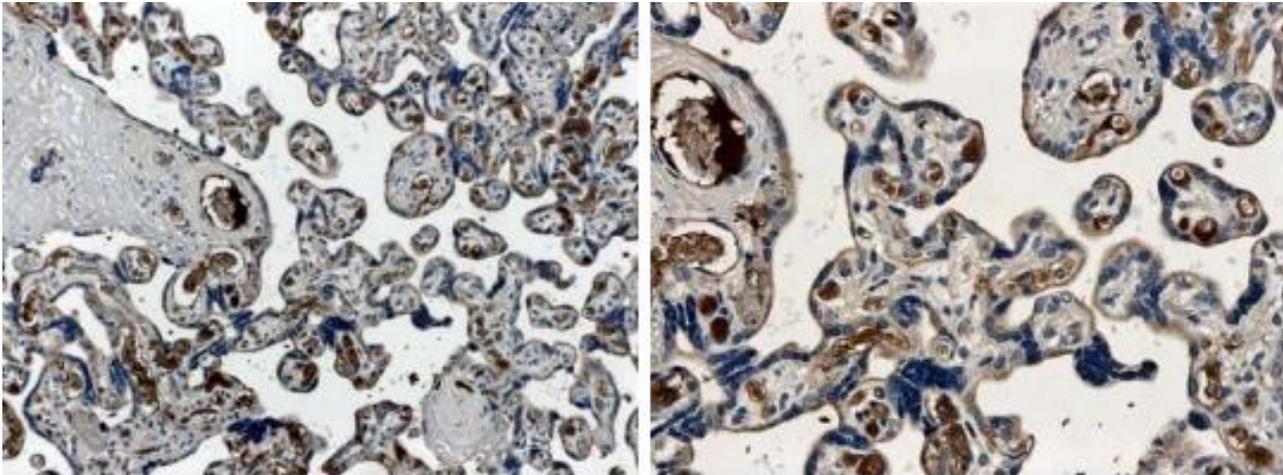


Fig. 1. Human placenta (formalin fixed and paraffin embedded) section is subjected to IHC using 101-M100.