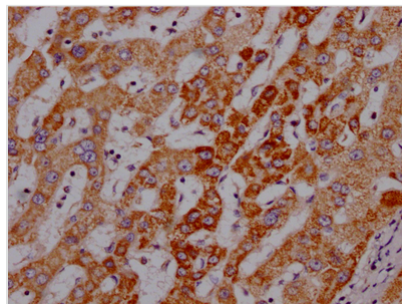




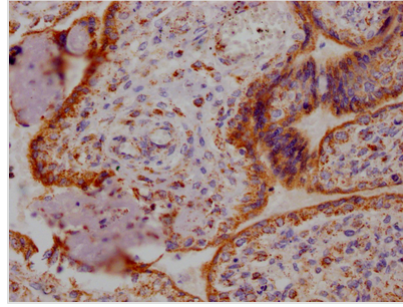
ANGPT2 Recombinant Monoclonal Antibody

Product Code	CSB-RA191985A0HU
Storage	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
Uniprot No.	O15123
Immunogen	A synthesized peptide derived from human Angiopoietin 2
Species Reactivity	Human
Tested Applications	ELISA, IHC; Recommended dilution: IHC:1:50-1:200
Relevance	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.
Form	Liquid
Conjugate	Non-conjugated
Storage Buffer	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purification Method	Affinity-chromatography
Isotype	Rabbit IgG
Clonality	Monoclonal
Product Type	Recombinant Antibody
Immunogen Species	Homo sapiens (Human)
Research Area	Cardiovascular
Gene Names	ANGPT2
Clone No.	1F10

Image



IHC image of CSB-RA191985A0HU diluted at 1:100 and staining in paraffin-embedded human liver cancer performed on a Leica BondTM system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4? overnight. The primary is detected by a Goat anti-rabbit IgG polymer labeled by HRP and visualized using 0.05% DAB.



IHC image of CSB-RA191985A0HU diluted at 1:100 and staining in paraffin-embedded human placenta tissue performed on a Leica BondTM system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4? overnight. The primary is detected by a Goat anti-rabbit IgG polymer labeled by HRP and visualized using 0.05% DAB.

Description

In the lymphatic endothelium, ANGPT2 works as an agonist, but in the blood endothelium, it acts as a competitive antagonist. ANGPT2 destabilizes vessel assembly, increases vessel permeability, and causes vascular plasticity via interrupting ANGPT1-TIE2 signaling. ANGPT2 has been discovered to be a powerful proangiogenic factor that works in tandem with VEGFA. ANGPT2 expression on ECs is induced by hypoxia and inflammation, which compromises endothelial integrity. TIE2 inhibition by ANGPT2 in blood arteries has been associated with the vascular leak, inflammation, and metastasis in illness.

The recombinant ANGPT2 antibody is a monoclonal antibody generated by cloning ANGPT2 antibody genes into plasma vectors and transfecting vector clones into stable cell lines for production. For recombinant antibody generation, mammalian cell lines like CHO cells and HEK293 are commonly used. The recombinant ANGPT2 antibody was purified using Affinity-chromatography. It has verified to detect ANGPT2 protein from Human in the ELISA, IHC.