

Anti-ANGPT2/Angiopoietin-2 Antibody (5L463)

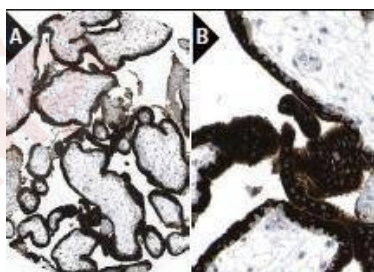
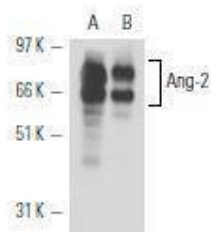
Product Details

Reactivity:	Human, Mouse, Rat
Conjugation:	Unconjugated
Molecular Weight:	Theoretical: 62-70 kDa.
Clone:	5L463
Purification:	ProA affinity purified

Applications

Verified Activity:

1. Western Blot analysis of Ang-2 expression in HUV-EC-C (A) and TF-1 (B) whole cell lysates.
2. Immunoperoxidase staining of formalin fixed, paraffin-embedded human placenta tissue showing cytoplasmic staining of trophoblastic cells at low (A) and high (B) magnification.



Application:	IF, IHC, IP, WB
Recommended	WB: 1:100-1000; IHC: 1:50-500; IP: 1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)

Properties

Stability & Storage:	Store at 2°C-8°C for 12 months, do not freeze.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	Peptide
Uniprot ID:	O15123
Synonyms:	ANG-2;Tie2-ligand;ANG2;angiopoietin-2B;AGPT2;angiopoitin 2;angiopoietin 2;Angiopoietin-2;ANGPT2;angiopoietin-2a

Research Background

Tie-1 and Tie-2 (also designated Tek) are novel cell surface receptor tyrosine kinases. The extracellular domain of Tie-1 has an unusual multidomain structure consisting of a cluster of three epidermal growth factor homology motifs localized between two immunoglobulin-like loops, which are followed by three Fibronectin type III repeats next to the transmembrane region. Angiopoietin-1 (Ang-1) is a secreted ligand for Tie-2. Preliminary biochemical analyses of Ang-1 reveal a potential Fibrinogen-like domain at the carboxy-terminus and coiled-coil regions in the amino-terminus. Ang-1 is an angiogenic factor that is thought to be involved in endothelial development. A related protein, angiopoietin-2 (Ang-2), has been identified as a naturally occurring antagonist of Ang-1 activation of Tie-2. In adult tissue, Ang-2 expression seems to be restricted to sites of vascular remodeling.

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