Product name: Anti-Angiopoietin-like 4/ANGPTL4 antibody
Description: Rabbit polyclonal to Angiopoietin-like 4/ANGPTL4
Host species: Rabbit
Tested applications: Suitable for: WB
Species reactivity: Reacts with: Human
Immunogen: Synthetic peptide corresponding to Human Angiopoietin-like 4/ANGPTL4 (internal sequence). (Peptide available as ab123817)
Positive control: Breast cancer tissue.
General notes: This product was previously labelled as Angiopoietin-like 4

Properties
Form: Liquid
Storage instructions: Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid repeated freeze / thaw cycles.
Storage buffer: Preservatives: 0.025% Thimerosal (merthiolate), 0.025% Sodium azide
Constituents: 2.5% BSA, 0.45% Sodium chloride, 0.1% Dibasic monohydrogen sodium phosphate
Purity: Protein A purified
Clonality: Polyclonal
Isotype: IgG

Applications
Our Abpromise guarantee covers the use of ab115798 in the following tested applications.
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.
Function
Protein with hypoxia-induced expression in endothelial cells. May act as a regulator of angiogenesis and modulate tumorgenesis. Inhibits proliferation, migration, and tubule formation of endothelial cells and reduces vascular leakage. May exert a protective function on endothelial cells through an endocrine action. It is directly involved in regulating glucose homeostasis, lipid metabolism, and insulin sensitivity. In response to hypoxia, the unprocessed form of the protein accumulates in the subendothelial extracellular matrix (ECM). The matrix-associated and immobilized unprocessed form limits the formation of actin stress fibers and focal contacts in the adhering endothelial cells and inhibits their adhesion. It also decreases motility of endothelial cells and inhibits the sprouting and tube formation.

Tissue specificity
Expressed at high levels in the placenta, heart, liver, muscle, pancreas and lung but expressed poorly in the brain and kidney.

Sequence similarities
Contains 1 fibrinogen C-terminal domain.

Post-translational modifications
N-glycosylated.

Cellular localization
Secreted. Secreted > extracellular space > extracellular matrix. The unprocessed form interacts with the extracellular matrix. This may constitute a dynamic reservoir, a regulatory mechanism of the bioavailability of ANGPTL4.

Images

All lanes: Anti-Angiopoietin-like 4/ANGPTL4 antibody (ab115798)
Lane 1: Human Placenta Tissue Lysate at 50 µg
Lane 2: SMMC Whole Cell Lysate at 40 µg
Lane 3: HeLa Whole Cell Lysate at 40 µg

Predicted band size: 45 kDa
**Western blot** - Anti-Angiopoietin-like 4/ANGPTL4 antibody (ab115798)

**All lanes**: Anti-Angiopoietin-like 4/ANGPTL4 antibody (ab115798)

- **Lane 1**: SMMC Whole Cell Lysate
- **Lane 2**: A549 Whole Cell Lysate
- **Lane 3**: U87 Whole Cell Lysate
- **Lane 4**: 293T Whole Cell Lysate
- **Lane 5**: SGC Whole Cell Lysate

**Predicted band size**: 45 kDa

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**Please note**: All products are “FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES”

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