

## Anti-Angiostatin K1-3/PLG Antibody

Catalog Number: RP1027

### About PLG

Ang K1-3 is a single, non-glycosylated polypeptide chain containing 259 amino acids. It represents a proteolytic fragment of plasminogen containing the first three kringle structures. Ang K1-3 reduces endothelial cell proliferation and acts as a potent inhibitor of angiogenesis and tumor growth. It displays increased inhibitory activity (ED50 = 70nM) relative to kringles 1-4 (ED50 = 135nM).

### Overview

|                      |  |
|----------------------|--|
| Product Name         | Anti-Angiostatin K1-3/PLG Antibody   |
| Reactive Species     | Human  |
| Description          | Boster Bio Anti-Angiostatin K1-3/PLG Antibody catalog # RP1027. Tested in ELISA, IHC, WB applications. This antibody reacts with Human.  |
| Application          | ELISA, IHC, WB   |
| Clonality            | Polyclonal   |
| Formulation          | Each vial contains 0.9mg NaCl, 0.2mg Na <sub>2</sub> HPO <sub>4</sub> , 0.05mg Na <sub>3</sub> . Carrier free (No BSA) form available in stock. If you want this antibody carrier free please specify "Carrier Free" or "No BSA" in your order note. |
| Storage Instructions | Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.  |
| Host                 | Rabbit   |
| Uniprot ID           | P00747   |

### Technical Details

|                               |  |
|-------------------------------|--|
| Immunogen                     | E. coli-derived human Angiostatin K1-3 recombinant protein (Position: C103-C352).  |
| Recommended Detection Systems | Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (SV0002-1) for IHC(P). |
| Cross Reactivity              | No cross-reactivity with other proteins  |
| Isotype                       | Rabbit IgG   |
| Form                          | Lyophilized  |
| Concentration                 | Adding 0.2 ml of distilled water will yield a concentration of 500 µg/ml.  |
| Purification                  | Immunogen affinity purified.   |

**Suggested Dilutions**

Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.

If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.

Some PubMed article(s) citing the expression level of this target are as follows:

Boster Bio's internal QC testing used Immunohistochemistry (Paraffin-embedded Section),

0.5-1 $\mu$ g/ml, Human, By Heat

ELISA , 0.1-0.5 $\mu$ g/ml, Human, -

Western blot, 0.1-0.5 $\mu$ g/ml, Human

For protocols, please visit <https://www.bosterbio.com/protocol-and-troubleshooting/>

## Anti-Angiostatin K1-3/PLG Antibody (RP1027) Images

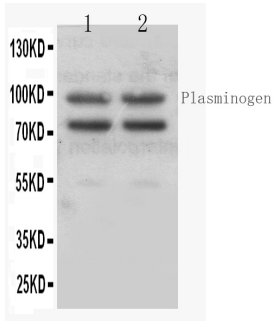


Figure 1. Western blot analysis of Angiostatin K1-3 using anti-Angiostatin K1-3 antibody (RP1027).

Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions.

Lane 1: SMMC7721 whole cell lysates, Lane 2: HEPG2 whole cell lysates.

After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-Angiostatin K1-3 antigen affinity purified polyclonal antibody (Catalog # RP1027) at 0.5 ug/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for Angiostatin K1-3 at approximately 95KD. The expected band size for Angiostatin K1-3 is at 95KD.

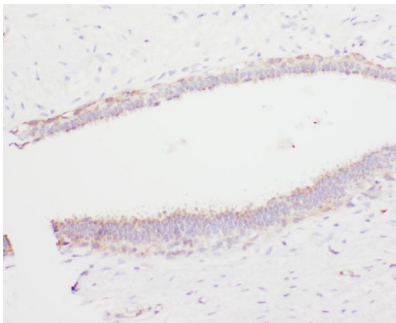


Figure 2. IHC analysis of Angiostatin K1-3 using anti-Angiostatin K1-3 antibody (RP1027).

Angiostatin K1-3 was detected in paraffin-embedded section of human mammary cancer tissues. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-Angiostatin K1-3 Antibody (RP1027) overnight at 4°C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC)(Catalog # SA1022) with DAB as the chromogen.

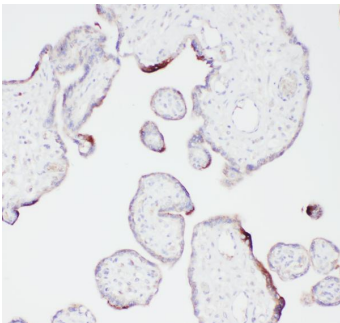


Figure 3. IHC analysis of Angiostatin K1-3 using anti-Angiostatin K1-3 antibody (RP1027).

Angiostatin K1-3 was detected in paraffin-embedded section of human placenta tissues. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-Angiostatin K1-3 Antibody (RP1027) overnight at 4°C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC)(Catalog # SA1022) with DAB as the chromogen.

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