bs-0280R **[Primary Antibody]**

PLGF Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 18654 **SWISS:** P49764

Target: PLGF

Immunogen: KLH conjugated synthetic peptide derived from mouse PLGF: 101-158/158.

Purification: affinity purified by Protein A

Concentration: 1mg/ml

Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Background: The placental-derived growth factor (PIGF) is a dimeric glycoprotein showing a high degree of sequence similarity to the vascular endothelial growth factor. Alternative splicing of the PIGF primary transcript gives rise to two forms, named PIGF-1 and PIGF-2, which differ only in the insertion of a highly basic 21-amino acid stretch at the carboxyl end. The presence of the PIGF mRNA in thyroid, placenta, lung, and goiter has indicated the tissues where this factor functions. However, the role of PIGF in vascular development has not yet been clearly established.

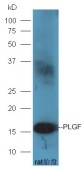
Applications: **WB** (1:500-2000)

Reactivity: Rat (predicted: Mouse, Pig)

Predicted MW.: 16 kDa

Subcellular Location: Secreted

VALIDATION IMAGES



Sample: Placenta (Rat) Lysate at 30 ug Primary: rabbit Anti-PLGF (bs-0280R) at 1:300 dilution; Secondary: HRP conjugated Goat-Anti-rabbit IgG(bs-0295G-HRP) at 1: 5000 dilution; Predicted band size:16 kD Observed band size:16 kD

SELECTED CITATIONS

- **[IF=13.352]** Guangdong Bai. et al. Perinatal exposure to glyphosate-based herbicides impairs progeny health and placental angiogenesis by disturbing mitochondrial function. ENVIRON INT. 2022 Dec;170:107579 WB ;Pig. 36265358
- **[IF=2.7]** Zhang, Liang, et al. "Placenta growth factor contributes to cell apoptosis and epithelial-to-mesenchymal transition in the hyperoxia-induced acute lung injury." Life Sciences (2016). WB ;="Rat". 27211521
- **[IF=3.24]** Enoch Odame Anto. et al. Placental lesions and differential expression of pro-and anti-angiogenic growth mediators and oxidative DNA damage marker in placentae of Ghanaian suboptimal and optimal health status pregnant women who later developed preeclampsia. Plos One. 2022 Mar;17(3):e0265717 IHC ;Human. 35312727
- **[IF=2.47]** Zhang, Liang, et al. "Knockdown of placental growth factor (PLGF) mitigates hyperoxia-induced acute lung injury in neonatal rats: Suppressive effects on NFκB signaling pathway." International Immunopharmacology 38 (2016): 167-174. WB ;="Rat". 27280587

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.