

## PRODUCT DATA SHEET

**Product:** Anti-Platelet Derived Endothelial Growth Factor, clone P-GF.44C

**Cat. No.:** MC-400 (100 µg)

**Specificity:**

Recognizes platelet-derived endothelial growth factor (PDECGF), also known as thymidine phosphorylase (TP) or gliostatin. In the presence of inorganic orthophosphate, it catalyses the reversible phospholytic cleavage of thymidine and deoxyuridine to their corresponding bases and 2-deoxyribose-1-phosphate. It is both chemotactic and mitogenic for endothelial cells and a non-heparin binding angiogenic factor present in platelets. It is also involved in transformation of fluoropyrimidines, cytotoxic agents used in the treatment of a variety of malignancies, into active cytotoxic metabolites.

**Species Reactivity:**

Human, mouse and rat, others not tested.

**Positive Control:**

HUVEC cells. Breast carcinoma.

**Cellular Localization:**

Cytoplasmic and nuclear

**MW of Antigen:**

55 kDa (reduced)

**Epitope:**

Not determined.

**Ig Isotype:**

IgG<sub>1</sub>

**Immunogen:**

Recombinant full length human thymidine phosphorylase (TP/PDECGF) protein.

**Format:**

500 µL of 200 µg/mL antibody in 10 mM PBS, pH 7.4, with protein stabilizer and 0.09% sodium azide. Purified from ascites fluid by Protein G chromatography.

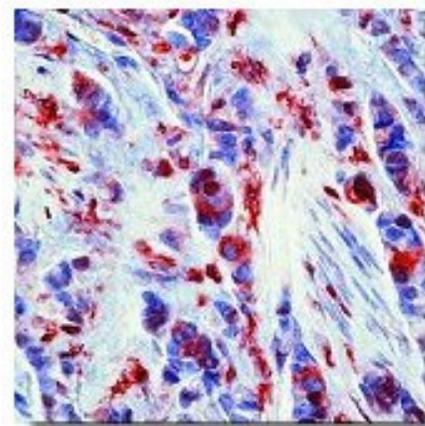
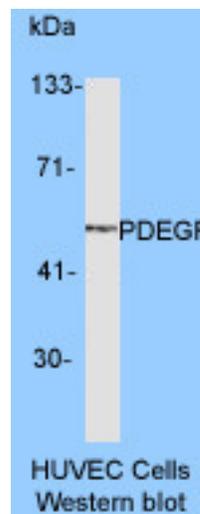
**Storage:**

Store at 4°C.

**Applications and Suggested Dilutions:**

- Function: Neutralizes PDECGF thymidine phosphorylase activity. (Not verified at KAMIYA BIOMEDICAL COMPANY)
- Immunohistochemistry: (formalin/paraffin sections) Use 1-2 µg/mL, 30 min at RT. [No special pretreatment is required for immunohistochemical staining of formalin-fixed tissues.]
- Western blotting (Not verified at KAMIYA BIOMEDICAL COMPANY)

The optimal dilution for a specific application should be determined by the researcher.



Formalin-fixed, paraffin embedded human breast carcinoma stained with MC-400.

**Limitations:**

For *in vitro* research use only. Not for use in diagnostics or in humans.

**Warranty:**

No warranties, expressed or implied, are made regarding the use of this product. KAMIYA BIOMEDICAL COMPANY is not liable for any damage, personal injury, or economic loss caused by this product.