

For Research Use Only

PD-ECGF Polyclonal antibody

Catalog Number: 12383-1-AP **8 Publications**



Basic Information

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| Catalog Number: 12383-1-AP | GenBank Accession Number: BC018160 | Purification Method: Antigen affinity purification |
| Size: 150ul , Concentration: 300 ug/ml by Nanodrop and 240 ug/ml by Bradford method using BSA as the standard; | GeneID (NCBI): 1890 | Recommended Dilutions: WB 1:500-1:2000 IHC 1:50-1:500 |
| Source: Rabbit | UNIPROT ID: P19971 | |
| Isotype: IgG | Full Name: thymidine phosphorylase | |
| Immunogen Catalog Number: AG3052 | Calculated MW: 482 aa, 50 kDa | |
| | Observed MW: 50 kDa | |

Applications

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| Tested Applications: WB, IHC, ELISA | Positive Controls: WB : A431 cells, HeLa cells, THP-1 cells IHC : human breast cancer tissue, human stomach cancer tissue, human ovary tumor tissue |
| Cited Applications: WB, IHC, IF | |
| Species Specificity: human | |
| Cited Species: human, mouse | |
| Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0 | |

Background Information

Platelet derived endothelial cell growth factor (PD-ECGF), also known as thymidine phosphorylase (TP), induces migration and angiogenesis in endothelial and tumor cells, and was upregulated in various malignancies compared to that in normal tissues. Interestingly, PD-ECGF has dual effect on tumor development and chemotherapy. It could stimulate cancer cell migration and proliferation. On the other hand, some chemotherapeutic agents (5-fluorouracil, capecitabine, etc.) were converted to their active forms through TP enzymes.

Notable Publications

| Author | Pubmed ID | Journal | Application |
|----------------|-----------|--------------------|-------------|
| Ryosuke Tamura | 25304388 | J Ovarian Res | WB |
| Yuhan Gu | 35314790 | Oncogene | WB |
| Qiong Lai | 32123298 | Acta Pharmacol Sin | WB,IF |

Storage

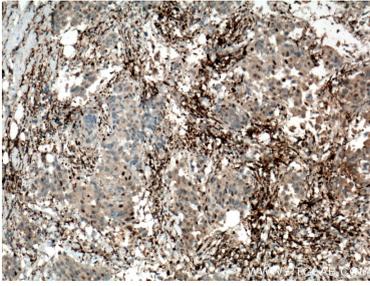
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

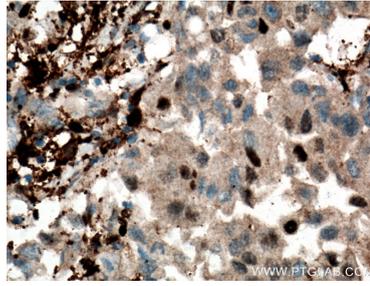
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

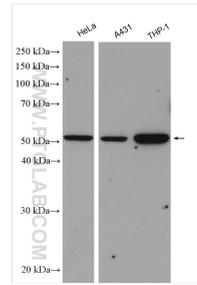
Selected Validation Data



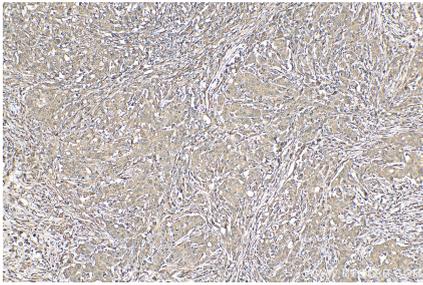
Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 12383-1-AP (PD-ECGF antibody) at dilution of 1:200 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



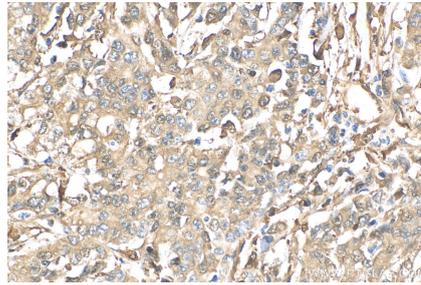
Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 12383-1-AP (PD-ECGF antibody) at dilution of 1:200 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Various lysates were subjected to SDS PAGE followed by western blot with 12383-1-AP (PD-ECGF antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human stomach cancer tissue slide using 12383-1-AP (PD-ECGF antibody) at dilution of 1:400 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human stomach cancer tissue slide using 12383-1-AP (PD-ECGF antibody) at dilution of 1:400 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).