

For Research Use Only

PD-ECGF Polyclonal antibody

Catalog Number: 12383-1-AP

8 Publications



Basic Information

Catalog Number:

12383-1-AP

Size:

150ul, Concentration: 300 ug/ml by Nanodrop and 240 ug/ml by Bradford method using BSA as the standard;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG3052

GenBank Accession Number:

BC018160

GeneID (NCBI):

1890

UNIPROT ID:

P19971

Full Name:

thymidine phosphorylase

Calculated MW:

482 aa, 50 kDa

Observed MW:

50 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:2000

IHC 1:50-1:500

Applications

Tested Applications:

WB, IHC, ELISA

Cited Applications:

WB, IHC, IF

Species Specificity:

human

Cited Species:

human, mouse

Positive Controls:

WB : A431 cells, HeLa cells, THP-1 cells

IHC : human breast cancer tissue, human stomach cancer tissue, human ovary tumor tissue

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

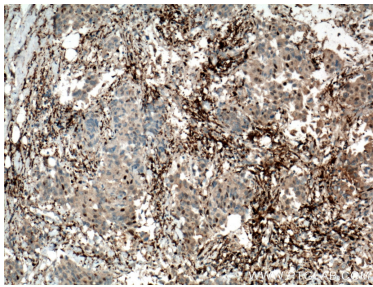
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

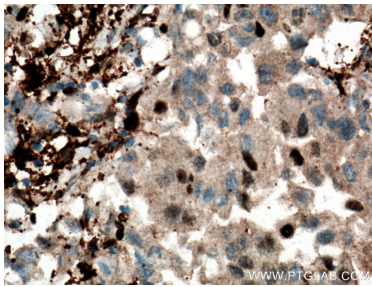
E: proteintech@ptglab.com
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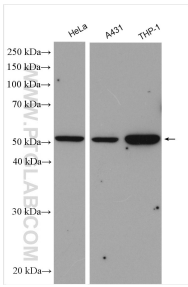
Selected Validation Data



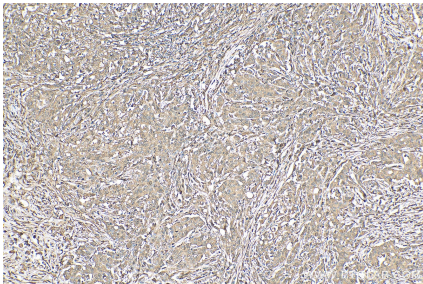
Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 12383-1-AP (PD-ECGF antibody) at dilution of 1:200 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



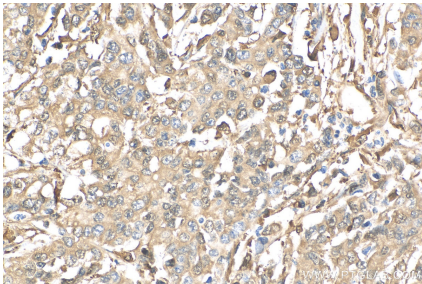
Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 12383-1-AP (PD-ECGF antibody) at dilution of 1:200 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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).