For Research Use Only

Midkine Polyclonal antibody

Catalog Number:11009-1-AP Featured Product 13 Publications

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Basic Information

Catalog Number:
11009-1-AP

Size:
450 ug/ml

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG1465

GenBank Accession Number:
BC011704

GeneID (NCBI):
4192

UNIPROT ID:
P21741

Full Name:
midkine (neurite growth-promoting factor 2)

Calculated MW:
16 kDa

Observed MW:
16 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:500-1:1000
IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate
IHC 1:50-1:500
IF/ICC 1:50-1:500

Applications

Tested Applications:
WB, IHC, IF/ICC, IP, ELISA

Cited Applications:
WB, IHC, IF

Species Specificity:
human, mouse

Cited Species:
human, mouse, rat

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : mouse embryo tissue, COLO 320 cells, SH-SY5Y cells

IP : mouse embryo tissue,

IHC : human intrahepatic cholangiocarcinoma tissue, human liver cancer tissue

IF/ICC : HeLa cells,

Background Information

Midkine is a heparin-binding growth factor identified over 20 years ago and enhances the survival, migration and many other activities of target cells. Midkine is rich in both basic amino acids and cysteine, and is not related to most other growth factors/cytokines. It is strongly expressed during embryonic periods, especially at the midgestation stage, and plays important roles in development, especially in neurogenesis. Midkine expression in adult tissue is generally weak or undetectable, and it is induced upon injury and exerts many activities related to tissue repair. The biological activities of midkine in malignant tumors include proliferation, angiogenesis, invasion and metastasis. Various cancers express significantly higher levels of the midkine protein in early stage tumor tissues than in adjacent normal tissue.

Notable Publications

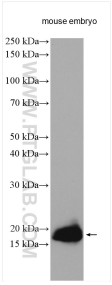
Author	Pubmed ID	Journal	Application
Beiquan Hu	34556138	Cancer Cell Int	WB
Federica Morani	33800494	Int J Mol Sci	WB
Luyu Zheng	35747815	Front Oncol	WB

Storage

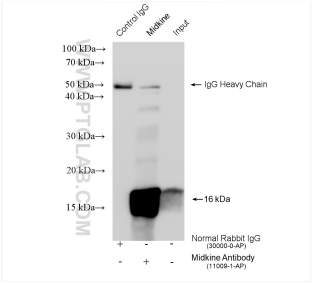
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

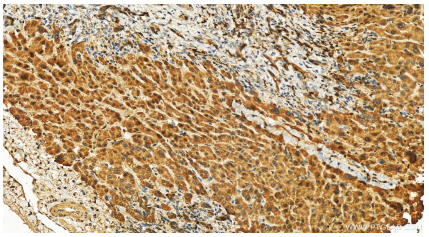
Selected Validation Data



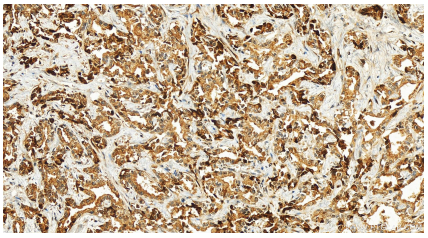
Mouse embryo tissue were subjected to SDS PAGE followed by western blot with 11009-1-AP (Midkine antibody) at dilution of 1:800 incubated at room temperature for 1.5 hours.



IP result of anti-Midkine (IP:11009-1-AP, 4ug; Detection:11009-1-AP 1:3000) with mouse embryo tissue lysate 4800 ug.



Immunohistochemical analysis of paraffin-embedded human intrahepatic cholangiocarcinoma tissue slide using 11009-1-AP (Midkine antibody) at dilution of 1:200 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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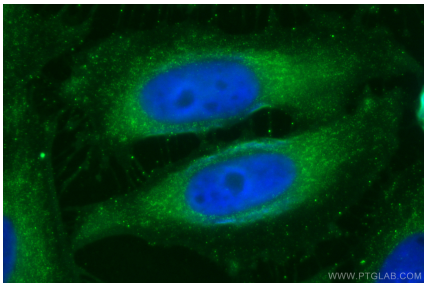

Immunofluorescent analysis of (-20°C Methanol) fixed HeLa cells using Midkine antibody (11009-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L).