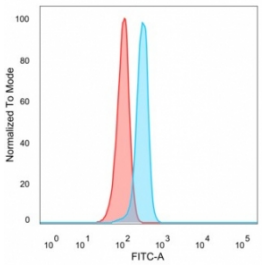
Hepatoma-Derived Growth Factor Antibody PCRP-HDGF-1D1 / Nuclear Mitogen Antibody [clone PCRP-HDGF-1D1] (V4749)

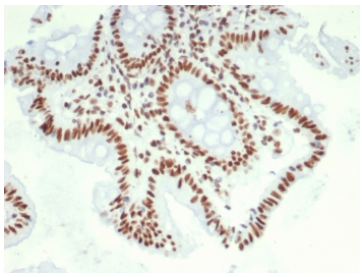
Catalog No.	Formulation	Size
V4749-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V4749-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V4749SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

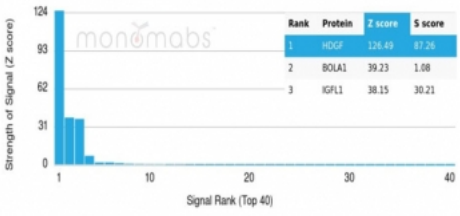
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2a, kappa
Clone Name	PCRP-HDGF-1D1
Purity	Protein A/G affinity
UniProt	P51858
Localization	Nucleus, Cytoplasm
Applications	Flow cytometry: 1-2ug/million cells Immunohistochemistry (FFPE): 1-2ug/ml for 30 min at RT
Limitations	This Hepatoma-Derived Growth Factor Antibody PCRP-HDGF-1D1 is available for research use only.



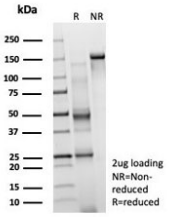
Hepatoma-Derived Growth Factor Antibody PCRP-HDGF-1D1 in Human HeLa Cervical Cancer Cells FACS. Flow cytometry testing of PFA-fixed human HeLa cervical cancer cells with clone PCRP-HDGF-1D1 followed by goat anti-mouse IgG-CF488. Antibody-stained cells (blue) show a clear fluorescence shift relative to unstained cells (red), demonstrating detection of the nuclear mitogen HDGF in HeLa cells.



Hepatoma-Derived Growth Factor Antibody PCRP-HDGF-1D1 in Human Colon Carcinoma IHC. Immunohistochemistry testing of clone PCRP-HDGF-1D1 in FFPE human colon carcinoma tissue. HIER was performed by boiling tissue sections in pH 9 10 mM Tris with 1 mM EDTA for 20 min followed by cooling before testing. Strong, predominantly nuclear immunoreactivity is observed in the carcinoma cells, consistent with the nuclear localization of HDGF.



Hepatoma-Derived Growth Factor Antibody PCRP-HDGF-1D1 Protein Microarray Validation. Protein microarray analysis of clone PCRP-HDGF-1D1 using a HuProt array containing more than 19,000 full-length human proteins. HDGF produces the dominant signal with an S-score of 36.63, showing substantial separation from the next-highest protein and supporting strong target specificity. The Z-score represents signal strength in standard deviations above the array mean, while the S-score represents separation between the intended target and the next-highest signal.



Purified Hepatoma-Derived Growth Factor Antibody PCRP-HDGF-1D1 SDS-PAGE. Electrophoretic analysis of 2 ug of purified, BSA-free clone PCRP-HDGF-1D1 under non-reducing (NR) and reducing (R) conditions. The non-reduced sample shows the intact antibody at approximately 150 kDa, while reduction produces the expected immunoglobulin heavy and light chain bands at approximately 50 and 25 kDa, respectively, supporting the integrity and purity of the preparation.

Description

Hepatoma-Derived Growth Factor Antibody PCRP-HDGF-1D1 / Nuclear Mitogen Antibody recognizes HDGF, a multifunctional growth-associated protein with prominent nuclear localization. HDGF was originally identified through its mitogenic activity in hepatoma-derived cells and has subsequently been associated with regulation of cell proliferation, differentiation, migration and gene expression. Unlike conventional extracellular growth factors that primarily signal through cell-surface receptors, HDGF can localize to the nucleus and participate in nuclear regulatory processes.

HDGF contains a conserved N-terminal PWWP domain, a structural feature found in numerous proteins that interact with DNA and chromatin. This region contributes to the DNA-binding properties of HDGF and helps connect its nuclear localization with transcriptional regulation. HDGF also exhibits mitogenic activity, giving the protein an unusual combination of growth-promoting and nuclear regulatory functions. These characteristics have led to extensive investigation of HDGF in mechanisms controlling cellular growth and tissue development.

Elevated HDGF expression has been reported in multiple tumor types and has been studied in relation to cancer cell proliferation, migration, invasion and disease progression. HDGF has therefore become a useful research target for examining how nuclear growth-associated proteins contribute to malignant cell behavior. Beyond cancer biology, HDGF has also been investigated in developmental, vascular and cardiovascular research.

Clone PCRP-HDGF-1D1 is a mouse monoclonal antibody directed against human HDGF. This Hepatoma-Derived Growth Factor Antibody has been evaluated by protein microarray analysis as well as cell- and tissue-based methods, providing complementary approaches for studying HDGF expression and localization. NSJ Bioreagents offers clone PCRP-HDGF-1D1 for researchers investigating nuclear growth regulation, proliferation and HDGF-associated biology. A Nuclear Mitogen Antibody provides a useful reagent for examining the distinctive nuclear and growth-associated functions of HDGF.

For additional information on HDGF biology and broader cell and tissue-based validation, visit our HDGF Antibody /

PWWP Domain Growth Factor Antibody page.

Application Notes

Optimal dilution of the Hepatoma-Derived Growth Factor Antibody PCRP-HDGF-1D1 / Nuclear Mitogen Antibody should be determined by the researcher.

Immunogen

Recombinant full-length human Hepatoma Derived Growth Factor protein was used as the immunogen for the HDGF antibody.

Storage

Aliquot the Hepatoma Derived Growth Factor antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

Alternate Names

Hepatoma-derived growth factor antibody, HDGF antibody, HMG-1L2 antibody, high mobility group protein 1-like 2 antibody, nuclear mitogen antibody

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