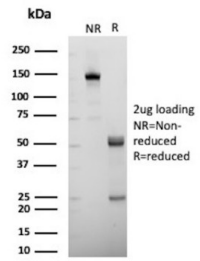
Hepatocyte Growth Factor Antibody EGH2 4C12.1 / Scatter Factor Antibody [clone EGH2 4C12.1] (V7839)

Catalog No.	Formulation	Size
V7839-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V7839-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V7839SAF-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 IgG2b, kappa
Clone Name	EGH2 4C12.1
Purity	Protein G affinity chromatography
UniProt	P14210
Applications	ELISA (order BSA-free format for coating)
Limitations	This Hepatocyte Growth Factor Antibody EGH2 4C12.1 / Scatter Factor Antibody is available for research use only.



Purified Hepatocyte Growth Factor Antibody EGH2 4C12.1 SDS-PAGE. Electrophoretic analysis of 2 ug of purified, BSA-free clone EGH2 4C12.1 under non-reducing (NR) and reducing (R) conditions. The non-reduced sample shows predominantly intact antibody at approximately 140-150 kDa, while reduction produces the expected immunoglobulin heavy and light chain bands at approximately 50 and 25 kDa, respectively, confirming the integrity and purity of the Hepatocyte Growth Factor Antibody preparation.

Description

Hepatocyte Growth Factor Antibody EGH2 4C12.1 / Scatter Factor Antibody recognizes HGF, a secreted multifunctional growth factor with important roles in cell proliferation, motility and morphogenesis. HGF was initially characterized as a factor capable of stimulating hepatocyte proliferation and was later found to be identical to scatter factor, which had been independently identified through its ability to promote epithelial cell dispersion and motility.

HGF is synthesized as a single-chain precursor that undergoes proteolytic processing to produce alpha and beta chains joined by a disulfide bond. The mature protein contains an N-terminal domain and four kringle domains within the alpha chain and a serine protease homology domain within the beta chain. Despite this structural similarity to serine proteases, HGF lacks proteolytic activity.

The biological effects of HGF are mediated primarily through the MET receptor tyrosine kinase. Activation of MET by HGF regulates signaling networks controlling cell growth, survival, migration and tissue organization. These activities contribute to epithelial-mesenchymal interactions, embryonic development, angiogenesis and tissue regeneration. Dysregulation of HGF-MET signaling has also been investigated extensively in cancer because increased pathway activity can contribute to tumor growth, invasion and metastatic behavior.

Clone EGH2 4C12.1 is a mouse monoclonal antibody generated against recombinant full-length human HGF protein and recognizes human HGF. This Hepatocyte Growth Factor Antibody is available in standard and BSA-free formulations, with the BSA-free format suitable when antibody coating is required for ELISA. NSJ Bioreagents provides clone EGH2 4C12.1 for research into HGF expression and growth factor biology. A Scatter Factor Antibody can support studies of this multifunctional cytokine and its relationship to cellular growth, motility and morphogenesis.

For additional information on HGF biology and multi-species Western blot validation, visit our HGF Antibody / MET Receptor Ligand Antibody page.

Application Notes

Optimal dilution of the Hepatocyte Growth Factor Antibody EGH2 4C12.1 / Scatter Factor Antibody should be determined by the researcher.

Immunogen

Recombinant full-length human HGF protein was used as the immunogen for this Hepatocyte Growth Factor Antibody EGH2 4C12.1.

Storage

Store the Hepatocyte Growth Factor Antibody EGH2 4C12.1 at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).

Alternate Names

Hepatocyte growth factor antibody, HGF antibody, scatter factor antibody, SF antibody, hepatopoietin A antibody

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