

ABfinity™ HGF Recombinant Rabbit Monoclonal Antibody

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Rev. 1.00

Catalog Number: 701283

Store at 2°C to 8°C (short-term), or -20°C (long-term)

Clonality: Monoclonal
Concentration: 0.5 mg/mL
Quantity: 100 µg
Volume: 200 µL

Host/Class: Rabbit IgG
Reactivity: Human HGF
Predicted Reactivity: Human

Product Description

Hepatocyte growth factor (HGF) is a member of the plasminogen subfamily of S1 peptidases. The inactive polypeptide formed upon translation undergoes cleavage to produce a 69 kDa alpha-chain and 34 kDa beta-chain. A disulphide bond between the two chains makes active HGF. HGF is secreted by mesenchymal cells and stimulates mitogenesis, cell motility, and matrix invasion. It is involved in cellular growth and morphogenesis in a wide variety of tissue types. In humans, HGF is present on chromosome 7.

Product Specifications

Immunogen: Recombinant protein corresponding to amino acids 27–169 of human HGF
Alternate Names: HPTA
Apparent MW: 69 kDa
Gene ID: 3082
Protein Accession No.: P14210
Sequence Identity: Human
Sequence Homology: Mouse, Rat, Monkey, Rabbit
Clone/PAD: 7H 6L1
Lot: See product label

Product Applications

Application	Species	Test Material	Concentration
Western blotting	Human	HepG2 cells	0.5–1 µg/mL
Indirect ELISA	Human	Recombinant protein	1.5 × 10 ⁻⁴ to 3 µg/mL
Immunocytochemistry	Human	HepG2 cells	1 µg/mL
Flow cytometry	Human	HepG2 cells	5 µg/mL

Stability

When stored as instructed, expires one year from date of receipt unless otherwise indicated on product label.

Storage and Handling

Store the antibody at 2°C to 8°C for up to 1 month, -20°C for long storage. Avoid repeated freezing and thawing.

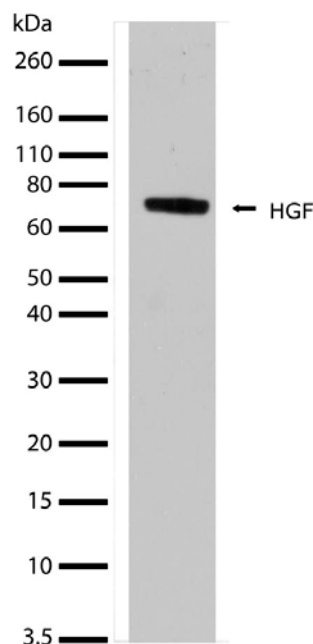


Figure 1 Western blot analysis of ABfinity™ HGF Recombinant Rabbit Monoclonal Antibody (Cat. no. 701283).

Western blot analysis was performed on whole cell extracts from HepG2 cells. Endogenous levels of HGF was detected at ~69 kDa using ABfinity™ HGF Recombinant Rabbit Monoclonal Antibody at a concentration of 1 µg/mL. The blot was developed using enhanced chemiluminescence (ECL) method.

Storage Buffer

Phosphate buffered saline (PBS) with 0.09% sodium azide.

Caution: Sodium azide is extremely toxic and may react with lead and copper plumbing to form highly explosive metal azides. Properly dispose of solutions containing sodium azide. Read the Safety Data Sheets (SDSs) and follow the handling instructions. Wear appropriate protective eyewear, clothing, and gloves. SDSs are available at www.lifetechnologies.com/support.

For research use only. Not for use in diagnostic procedures.

Manufacturing Site • 7335 Executive Way • Frederick • MD 21704 • E-mail: techsupport@lifetech.com

Product Documentation

To obtain a Certificate of Analysis or SDS, visit www.lifetechnologies.com/support.

Related Products

Product Name	Quantity	Catalog No.
iBlot® Dry Blotting System	1 unit	IB1001
WesternBreeze® Chromogenic Kit Anti-Rabbit	1 kit	WB7105
WesternBreeze® Chemiluminescent Kit, Anti-Rabbit	1 kit	WB7106

Limited Product Warranty

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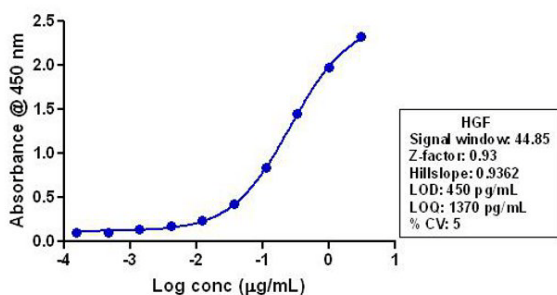


Figure 2 Indirect ELISA of ABfinity™ HGF Recombinant Rabbit Monoclonal Antibody (Cat. no. 701283).

Indirect ELISA was performed using various dilutions of ABfinity™ HGF Recombinant Rabbit Monoclonal Antibody to detect HGF protein coated onto the plate. A non-linear regression analysis was performed (4 PL), and LOD and LOQ for the antibody was determined.

Explanation of symbols

Symbol	Description	Symbol	Description	Symbol	Description
	Manufacturer		Catalog number		Batch code
	Use by		Temperature limitation		
	Consult instructions for use		Caution, consult accompanying documents		

Limited Use Label License No. 327: Recombinant Antibody Technology

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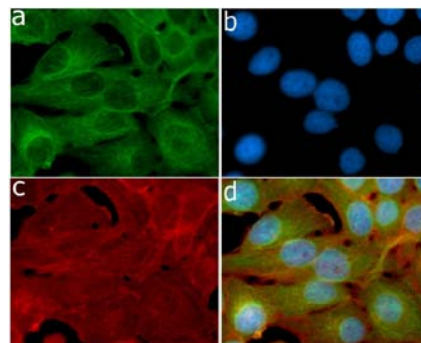


Figure 3 Immunocytochemistry analysis of ABfinity™ HGF Recombinant Rabbit Monoclonal Antibody (Cat. no. 701283).

Immunocytochemistry analysis of HepG2 cells stained with ABfinity™ HGF Recombinant Rabbit Monoclonal Antibody, using a: Alexa Fluor® 488 goat anti-rabbit as a secondary antibody (green). b: DAPI stained HepG2 nuclei (blue). c: Actin stained with Alexa Fluor® 594 phalloidin (red). d: Composite image of cells showing nuclear localization of HGF.

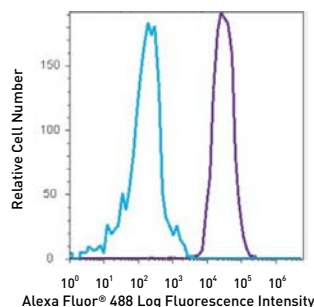


Figure 4 Flow cytometry analysis of HepG2 cells labeled with ABfinity™ HGF Recombinant Rabbit Monoclonal Antibody (Cat. no. 701283).

Fixed and permeabilized HepG2 cells stained with ABfinity™ HGF Recombinant Rabbit Monoclonal Antibody, followed by Alexa Fluor® 488 goat anti-Rabbit Ig, (right peak). To confirm specificity, the cells were also stained with Alexa Fluor® 488 without the HGF antibody (left peak).

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