

# Anti-HGF Antibody [PSH03-79] - BSA and Azide free

## HA751614



<b>Product Type:</b>	Recombinant Rabbit monoclonal IgG, primary antibodies
<b>Species reactivity:</b>	Human
<b>Applications:</b>	WB
<b>Molecular Wt:</b>	Predicted band size: 83 kDa
<b>Clone number:</b>	PSH03-79

**Description:** HGF, also known as scatter factor and hepatopoietin A, is a pleiotropic protein in the plasminogen subfamily of S1 peptidases. It is a multidomain molecule that includes an N-terminal PAN/APPLE-like domain, four Kringle domains, and a serine proteinase-like domain that has no detectable protease activity. Human HGF is secreted as an inactive 728 amino acid (aa) single chain propeptide. It is cleaved after the fourth Kringle domain by a serine protease to form bioactive disulfide-linked HGF with a 60 kDa alpha and 30 kDa beta chain. Alternate splicing generates human HGF isoforms that lack the proteinase-like domain and different numbers of the Kringle domains. Human HGF shares 91%-94% aa sequence identity with bovine, canine, feline, mouse, and rat HGF. HGF binds heparan-sulfate proteoglycans and the widely expressed receptor tyrosine kinase, HGF R/c-MET. HGF-dependent c-MET activation is implicated in the development of many human cancers. HGF regulates epithelial morph.

**Immunogen:** Recombinant protein within Human HGF aa 1-728.

**Positive control:** U-87 MG cell lysate, NCI-H1299 cell lysate.

**Subcellular location:** Extracellular region, Extracellular space.

**Database links:** SwissProt: P14210 Human

**Recommended Dilutions:**

**WB** 1:2,000

**Storage Buffer:** PBS (pH7.4).

**Storage Instruction:** Store at +4°C after thawing. Aliquot store at -20°C. Avoid repeated freeze / thaw cycles.

**Purity:** Protein A affinity purified.

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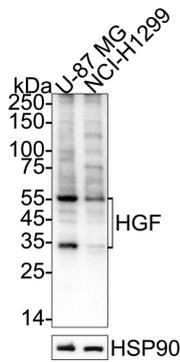
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## Images



**Fig1:** Western blot analysis of HGF on different lysates with Rabbit anti-HGF antibody (HA751614) at 1/2,000 dilution.

Lane 1: U-87 MG cell lysate

Lane 2: NCI-H1299 cell lysate

Lysates/proteins at 20 µg/Lane.

Exposure time: 3 minutes; ECL: K1802;

4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody (HA751614) at 1/2,000 dilution was used in primary antibody dilution (K1803) at 4°C overnight. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1/50,000 dilution was used for 1 hour at room temperature.

**Note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

## Background References

1. Stamos J., Lazarus R.A., Yao X., Kirchofer D., Wiesmann C. Crystal structure of the HGF beta-chain in complex with the Sema domain of the Met receptor. *EMBO J.* 23:2325-2335 (2004)
2. Tolbert W.D., Daugherty-Holtrop J., Gherardi E., Vande Woude G., Xu H.E. Structural basis for agonism and antagonism of hepatocyte growth factor. *Proc. Natl. Acad. Sci. U.S.A.* 107:13264-13269 (2010)

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