

## Human HGF Antibody Pair Set

<b>Catalog No.</b>	E-KAB-0032	<b>Applications</b>	ELISA
<b>Synonyms</b>	F-TCF, HGFB, HPTA, SF, Scatter Factor, Hepapoeitin A		

### Kit components & Storage

Title	Specifications	Storage
Human HGF Capture Antibody	1 vial, 100 µg	Store at -20℃ for one year. Avoid freeze / thaw cycles.
Human HGF Detection Antibody (Biotin)	1 vial, 50 µL	Store at -20℃ for one year. Avoid freeze / thaw cycles.

**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

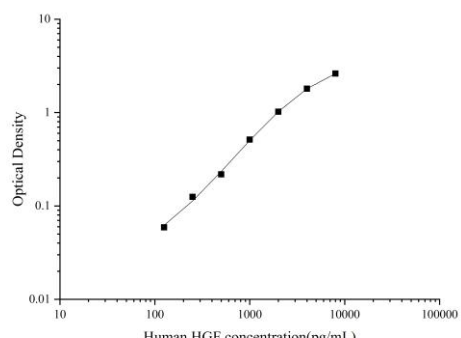
### Product Information

Items		Characteristic (E-KAB-0032)	
		Human HGF Capture Antibody	Human HGF Detection Antibody (Biotin)
Immunogen Information	Immunogen	Recombinant Human HGF protein	Recombinant Human HGF protein
	Swissprot	P14210	
Product details	Reactivity	Human	Human
	Host	Mouse	Goat
	Conjugation	Unconjugated	Biotin
	Concentration	0.5mg/mL	/
	Buffer	PBS with 0.04% Proclin 300, 50% glycerol, pH 7.4	PBS with 0.04% Proclin 300, 1% protective protein, 50% glycerol, pH 7.4
	Purify	Protein A or G	Antigen Affinity
	Specificity	Detects Human HGF in ELISAs.	

### For Research Use Only

## Applications

### Human HGF Sandwich ELISA Assay:

	Recommended Concentration/Dilution	Reagent	Images																
ELISA Capture	0.5-4μg/mL	Human HGF Capture Antibody	 <table><caption>Approximate data points from the standard curve</caption><thead><tr><th>Human HGF concentration (pg/mL)</th><th>Optical Density</th></tr></thead><tbody><tr><td>100</td><td>0.05</td></tr><tr><td>200</td><td>0.1</td></tr><tr><td>500</td><td>0.2</td></tr><tr><td>1000</td><td>0.4</td></tr><tr><td>2000</td><td>0.8</td></tr><tr><td>5000</td><td>1.5</td></tr><tr><td>10000</td><td>2.5</td></tr></tbody></table>	Human HGF concentration (pg/mL)	Optical Density	100	0.05	200	0.1	500	0.2	1000	0.4	2000	0.8	5000	1.5	10000	2.5
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ELISA Detection	1:1000-1:10000	Human HGF Detection Antibody (Biotin)																	

**Note:** This standard curve is only for demonstration purposes. A standard curve should be generated for each assay!

## Background

Hepatocyte growth factor regulates cell growth, cell motility, and morphogenesis by activating a tyrosine kinase signaling cascade after binding to the proto-oncogenic c-Met receptor. Hepatocyte growth factor is secreted by mesenchymal cells and acts as a multi-functional cytokine on cells of mainly epithelial origin. Its ability to stimulate mitogenesis, cell motility, and matrix invasion gives it a central role in angiogenesis, tumorigenesis, and tissue regeneration. It is secreted as a single inactive polypeptide and is cleaved by serine proteases into a 69-kDa alpha-chain and 34-kDa beta-chain. A disulfide bond between the alpha and beta chains produces the active, heterodimeric molecule.