**BACKGROUND**

Hepatocyte growth factor (HGF) is a pleiotropic growth factor also designated scatter factor, hematopoietin A and mammary growth factor. HGF is synthesized as a single chain, 728 amino acid precursor with a 29 amino acid signal peptide which is not present in the mature protein. Biologically active HGF is composed of a disulfide linked α chain and a β chain, both of which are highly glycosylated. HGF exerts its biological effects through the HGF receptor, c-Met, which is expressed by normal hepatocytes, gastric and intestinal epithelium, ovarian and endometrial endothelium and in the basal layers of skin. While c-Met is not thought to be expressed in normal lung, thyroid or pancreatic tissue, it has been detected in tumors originating from such tissue. The c-Met proto-oncogene encodes a 1,408 amino acid glycoprotein that represents the prototypic member of a novel family of receptor tyrosine kinases (RTKs) that include Ron, Sea and Sex.

**REFERENCES**


**CHROMOSOMAL LOCATION**

Genetic locus: HGF (human) mapping to 7q21.11.

**SOURCE**

HGF (3F203) is a mouse monoclonal antibody raised against recombinant HGF of human origin.

**PRODUCT**

Each vial contains 100 μg IgG kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

**APPLICATIONS**

HGF (3F203) is recommended for detection of HGF of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000); non-cross-reactive with other tested cytokines using indirect ELISA.

Suitable for use as control antibody for HGFα/β siRNA (h): sc-37111, HGFα/β shRNA Plasmid (h): sc-37111-SH and HGFα/β shRNA Lentiviral Particles: sc-37111-V.

Molecular Weight of HGF precursor: 91 kDa.
Molecular Weight of HGF α chain: 64 kDa.
Molecular Weight of HGF β chain: 34 kDa.

**RECOMMENDED SUPPORT REAGENTS**

To ensure optimal results, the following support reagents are recommended:
1) Western Blotting: use m-IgG κ BP-HRP: sc-516102 or m-IgG κ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048.

**STORAGE**

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

**RESEARCH USE**

For research use only, not for use in diagnostic procedures.

**PROTOCOLS**

See our web site at www.scbt.com for detailed protocols and support products.