**HGFα (N-17): sc-1357**

**BACKGROUND**

Hepatocyte growth factor, or HGF, is a pleiotropic growth factor variously designated as 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, c-Met 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 Sox.

**CHROMOSOMAL LOCATION**

Genetic locus: HGF (human) mapping to 7q11.11; Hgf (mouse) mapping to 5 A2.

**SOURCE**

HGFα (N-17) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the N-terminus of HGFα of human origin.

**PRODUCT**

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-1357 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

**APPLICATIONS**

HGFα (N-17) is recommended for detection of HGFα of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation (1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)), immunofluorescence (starting dilution 1:50, dilution range 1:50-1:1500), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:300-1:3000).

HGFα (N-17) is also recommended for detection of HGFα in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for HGFα/β siRNA (h): sc-37111, HGFα/β siRNA (m): sc-37112, HGFα/β shRNA Plasmid (h): sc-37111-SH, HGFα/β shRNA Plasmid (m): sc-37112-SH, HGFα/β shRNA (h) Lentiviral Particles: sc-37111-V and HGFα/β shRNA (m) Lentiviral Particles: sc-37112-V.

Molecular Weight of HGFα: 69 kDa.

Positive Controls: c4 whole cell lysate: sc-364186.

**STORAGE**

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

**DATA**

Western blot analysis of human recombinant HGFα (A, B). Antibodies tested include HGFα (C-20): sc-1588 (A) and HGFα (N-17): sc-1357 (B).

HGFα (N-17): sc-1357. Immunoperoxidase staining of formalin fixed, paraffin-embedded human liver tissue showing cytoplasmic staining of hepatocytes.

**SELECT PRODUCT CITATIONS**


