

Met (C-12): sc-10

BACKGROUND

The c-Met oncogene was originally isolated from a chemical carcinogen-treated human osteogenic sarcoma cell line by transfection analysis in NIH/3T3 cells. The Met proto-oncogene product was identified as a transmembrane receptor-like protein with tyrosine kinase activity that is expressed in many tissues. A high proportion of spontaneous NIH/3T3 transformants over-express c-Met and by transfection analysis the c-Met proto-oncogene has been shown to exhibit transforming activity. Tyrosine phosphorylation of apparently normal Met protein has also been observed in certain human gastric carcinoma cell lines. The c-Met gene product has been identified as the cell-surface receptor for hepatocyte growth factor, a plasminogen-like protein thought to be humoral mediator of liver regeneration.

CHROMOSOMAL LOCATION

Genetic locus: MET (human) mapping to 7q31.2.

SOURCE

Met (C-12) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping within a C-terminal cytoplasmic domain of Met 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-10 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

Available as agarose conjugate for immunoprecipitation, sc-10 AC, 500 µg/0.25 ml agarose in 1 ml.

APPLICATIONS

Met (C-12) is recommended for detection of Met of 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 1:50-1:500), 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 1:30-1:3000).

Suitable for use as control antibody for Met siRNA (h): sc-29397, Met shRNA Plasmid (h): sc-29397-SH and Met shRNA (h) Lentiviral Particles: sc-29397-V.

Molecular Weight of Met precursor: 170 kDa.

Molecular Weight of Met α subunit: 50 kDa.

Molecular Weight of Met β subunit: 145 kDa.

Positive Controls: Human breast carcinoma tissue, HeLa whole cell lysate: sc-2200 or A-431 whole cell lysate: sc-2201.

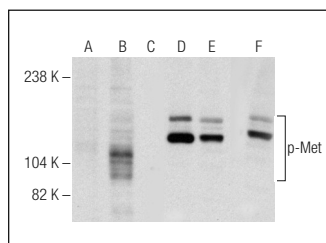
STORAGE

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

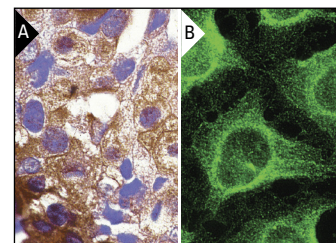
RESEARCH USE

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

DATA



Western blot analysis of Met phosphorylation in untreated (A,D), HGF treated (B,E) and HGF and lambda protein phosphatase (sc-200312A) treated (C,F) HeLa whole cell lysates. Antibodies tested include p-Met (Tyr 1365): sc-34087 (A,B,C) and Met (C-12): sc-10 (D,E,F).



Met (C-12): sc-10. Immunoperoxidase staining of formalin-fixed, paraffin-embedded human breast carcinoma tissue showing membrane and cytoplasmic staining (A). Immunofluorescence staining of methanol-fixed HeLa cells showing cytoplasmic and membrane localization (B).

SELECT PRODUCT CITATIONS

- Kermorgant, S., et al. 1997. Developmental expression and functionality of hepatocyte growth factor and c-Met in human fetal digestive tissues. *Gastroenterology* 112: 1635-1647.
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- Pavone, L.M., et al. 2011. Intracellular signaling cascades triggered by the NK1 fragment of hepatocyte growth factor in human prostate epithelial cell line PNT1A. *Cell. Signal.* 23: 1961-1971.
- Hu, P., et al. 2011. Multiplexed quantum dot labeling of activated c-Met signaling in castration-resistant human prostate cancer. *PLoS ONE* 6: e28670.
- Kühbacher, A., et al. 2012. Phosphatidylinositol 5-phosphatase oculocerebrorenal syndrome of Lowe protein (OCRL) controls actin dynamics during early steps of *Listeria monocytogenes* infection. *J. Biol. Chem.* 287: 13128-13136.
- Ancot, F., et al. 2012. Shedding-generated Met receptor fragments can be routed to either the proteasomal or the lysosomal degradation pathway. *Traffic* 13: 1261-1272.
- Ricci, F., et al. 2012. Ovarian carcinoma tumor-initiating cells have a mesenchymal phenotype. *Cell Cycle* 11: 1966-1976.



Try **Met (D-4): sc-514148** or **Met (H-10): sc-514149**, our highly recommended monoclonal alternatives to Met (C-12). Also, for AC, HRP, FITC, PE, Alexa Fluor[®] 488 and Alexa Fluor[®] 647 conjugates, see **Met (D-4): sc-514148**.