

#3133 Store at -20°C

Phospho-Met (Tyr1349) (130H2) Rabbit mAb



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rev. 01/06/16

For Research Use Only. Not For Use In Diagnostic Procedures.

Entrez-Gene ID # 4233
UniProt ID # P08581

Applications W Endogenous	Species Cross-Reactivity* H, M, R	Molecular Wt. 145 kDa	Isotype Rabbit IgG**
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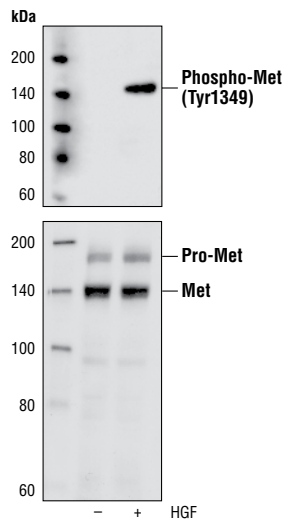
Background: Met, a high affinity tyrosine kinase receptor for hepatocyte growth factor (HGF, also known as scatter factor) is a disulfide-linked heterodimer made of 45 kDa α - and 145 kDa β -subunits (1,2). The α -subunit and the amino-terminal region of the β -subunit form the extracellular domain. The remainder of the β -chain spans the plasma membrane and contains a cytoplasmic region with tyrosine kinase activity. Interaction of Met with HGF results in auto-phosphorylation at multiple tyrosines, which recruit several downstream signaling components, including Gab1, c-Cbl, and PI3 kinase (3). These fundamental events are important for all of the biological functions involving Met kinase activity. The addition of a phosphate at cytoplasmic Tyr1003 is essential for Met protein ubiquitination and degradation (4). Phosphorylation at Tyr1234/1235 in the Met kinase domain is critical for kinase activation. Phosphorylation at Tyr1349 in the Met cytoplasmic domain provides a direct binding site for Gab1 (5). Altered Met levels and/or tyrosine kinase activities are found in several types of tumors, including renal, colon, and breast. Thus, Met is an attractive cancer therapeutic and diagnostic target (6,7).

Specificity/Sensitivity: Phospho-Met (Tyr1349) (130H2) Rabbit mAb detects endogenous levels of Met only when phosphorylated at tyrosine 1349. This antibody may cross-react with other activated protein tyrosine kinases.

Source/Purification: Monoclonal antibody is produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Tyr1349 of human Met.

Background References:

- (1) Cooper, C.S. et al. (1984) *Nature* 311, 29-33.
- (2) Bottaro, D.P. et al. (1991) *Science* 251, 802-4.
- (3) Bardelli, A. et al. (1997) *Oncogene* 15, 3103-11.
- (4) Taher, T.E. et al. (2002) *J Immunol* 169, 3793-800.
- (5) Schaeper, U. et al. (2000) *J Cell Biol* 149, 1419-32.
- (6) Eder, J.P. et al. (2009) *Clin Cancer Res* 15, 2207-14.
- (7) Sattler, M. and Salgia, R. (2009) *Update Cancer Ther* 3, 109-118.



Western blot analysis of cell lysates of H4IIE cells untreated or treated with HGF, using Phospho-Met (Tyr1349) (130H2) Rabbit mAb (upper), or Met (25H2) Mouse mAb #3127 (lower).

Storage: Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA and 50% glycerol. Store at -20°C. Do not aliquot the antibody.

***Species cross-reactivity is determined by western blot.**

****Anti-rabbit secondary antibodies must be used to detect this antibody.**

Recommended Antibody Dilutions:

Western blotting 1:1000

For application specific protocols please see the web page for this product at www.cellsignal.com.

Please visit www.cellsignal.com for a complete listing of recommended companion products.

IMPORTANT: For western blots, incubate membrane with diluted antibody in 5% w/v BSA, 1X TBS, 0.1% Tween®20 at 4°C with gentle shaking, overnight.

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Applications Key: W—Western IP—Immunoprecipitation IHC—Immunohistochemistry ChIP—Chromatin Immunoprecipitation IF—Immunofluorescence F—Flow cytometry E-P—ELISA-Peptide
Species Cross-Reactivity Key: H—human M—mouse R—rat Hm—hamster Mk—monkey Mi—mink C—chicken Dm—D. melanogaster X—Xenopus Z—zebrafish B—bovine
 Dg—dog Pg—pig Sc—S. cerevisiae Ce—C. elegans Hr—Horse All—all species expected Species enclosed in parentheses are predicted to react based on 100% homology.