**Met (D1C2) XP® Rabbit mAb**

**Applications**

Western, IP, IHC-P, IHC-F, IF-IC, F

**Species Cross-Reactivity**

Endogenous

**Molecular Wt.**

140, 170 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 critical for kinase activation. Phosphorylation at Tyr1349 in the Met kinase domain is critical for kinase activity. 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:** Met (D1C2) XP® Rabbit mAb recognizes endogenous levels of total Met protein.

**Source/Purification:** Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus of human Met protein.

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Western blot analysis of extracts from HT-29 (Met+), SK-BR-3 (Met-), and T-47D (Met-) cells using Met (D1C2) XP® Rabbit mAb (upper) or β-Actin Antibody #4967 (lower).

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**Recommended Antibody Dilutions:**

- Western blotting: 1:1000
- Immunoprecipitation: 1:50
- Immunohistochemistry (Paraffin): 1:300
- Unmasking buffer: Citrate
- Antibody diluent: SignalStain® Antibody Diluent #8112
- Fixative: 3% Formaldehyde

Optimal IHC dilutions determined using SignalStain® Boost IHC Detection Reagent.

Immunohistochemistry (Leica® Bond™) 1:300

Flow Cytometry 1:400

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**Background References:**


**Entrez-Gene ID:** 4233

**UniProt ID:** P08581

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**Leica® and Bond™** are registered trademarks of Leica Biosystems Ltd. US and/or other countries.

**DyLight** is a trademark of Thermo Fisher Scientific Inc. and its subsidiaries.

**Support:**

Orders 877-616-CELL (2355)
orders@cellsignaling.com

Support 877-678-TECH (8324)
info@cellsignaling.com

Web www.cellsignal.com

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**Storage:** Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at −20°C. Do not aliquot the antibody.

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

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

**Recommended Antibody Dilutions:**

- Western blotting: 1:1000
- Immunoprecipitation: 1:50
- Immunohistochemistry (Paraffin): 1:300
- Unmasking buffer: Citrate
- Antibody diluent: SignalStain® Antibody Diluent #8112
- Fixative: 3% Formaldehyde
- Detection reagent: SignalStain® Boost (HRP, Rabbit) #8114

Optimal IHC dilutions determined using SignalStain® Boost IHC Detection Reagent.

Immunohistochemistry (Leica® Bond™) 1:300

Flow Cytometry 1:400

For product 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 nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

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Flow cytometric analysis of T-47D cells (blue) and HT-29 cells (green) using Met (D1C2) XP® Rabbit mAb.

Immunohistochemical analysis of frozen MKN45 xenograft using Met (D1C2) XP® Rabbit mAb.

Immunohistochemical analysis of paraffin-embedded human hepatocellular carcinoma using Met (D1C2) XP® Rabbit mAb.

Immunohistochemical analysis of paraffin-embedded human metastatic lung carcinoma using Met (D1C2) XP® Rabbit mAb.

Immunohistochemical analysis of paraffin-embedded human papillary renal cell carcinoma using Met (D1C2) XP® Rabbit mAb.

Immunohistochemical analysis of paraffin-embedded human hepatocellular carcinoma using Met (D1C2) XP® Rabbit mAb.

Immunohistochemical analysis of paraffin-embedded cell pellets, MKN-45 (left) and T-47D (right), using Met (D1C2) XP® Rabbit mAb.

Immunohistochemical analysis of paraffin-embedded human metastatic lung carcinoma using Met (D1C2) XP® Rabbit mAb.

Immunohistochemical analysis of paraffin-embedded human papillary renal cell carcinoma using Met (D1C2) XP® Rabbit mAb.

Immunohistochemical analysis of paraffin-embedded human colon adenocarcinoma using Met (D1C2) XP® Rabbit mAb performed on the Leica® Bond™ Rx.