Phospho-Met (Tyr1234/1235) Antibody



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Applications: WB, IP	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 145	Source: Rabbit	UniProt ID: #P08581	Entrez-Gene Id 4233	
Product Usage Information	Ар	Application			Dilution		
	We	Western Blotting			1:1000		
	Im	munoprecipitation			1:50		
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.					
Specificity / Sensitivity		Phospho-Met (Tyr1234/1235) Antibody detects endogenous levels of Met when dually phosphorylated at tyrosine 1234/1235, and when singly phosphorylated at either Tyr1234 or Tyr1235. This antibody cross-reacts with activated Ron, EGF, PDGF, insulin and FGF receptors.					
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Tyr1234/1235 of human Met. Antibodies are purified by protein A and peptide affinity chromatography.					
Background	fact and spa Met sigr for a	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 autophosphorylation at multiple tyrosines, which recruit several downstream signaling components, including Gab1, c-Cbl, and Pl3 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					

Background References

1. Cooper, C.S. et al. (1984) Nature 311, 29-33.

target (6,7).

- 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.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

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

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). Research studies have shown that altered Met levels and/or tyrosine kinase activities are found in several types of tumors, including renal, colon, and breast. Thus, investigators have concluded that Met is an attractive potential cancer therapeutic and diagnostic

Applications Key

WB: Western Blotting IP: Immunoprecipitation

Cross-Reactivity Key

H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus 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

GP: Guinea Pig Rab: rabbit All: all species expected

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