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Phospho-Met (Tyr1234/1235) (D26) XP® Rabbit mAb



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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: WB, IP, IHC-P, IF-IC, FC-FP	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 145	Source/Isotype: Rabbit	UniProt ID: #P08581	Entrez-Gene Id: 4233
Product Usage Information	Ą	plication				Dilution
	W	estern Blotting				1:1000
	Im	munoprecipitation				1:50
	Im	munohistochemistry	(Paraffin)			1:320
	Im	Immunofluorescence (Immunocytochemistry)				1:800
	Flo	Flow Cytometry (Fixed/Permeabilized)				1:200
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20° C. Do not aliquot the antibody.				
	For	For a carrier free (BSA and azide free) version of this product see product #98954.				
Specificity / Sens	pho pho	Phospho-Met (Tyr1234/1235) (D26) XP [®] Rabbit mAb detects endogenous levels of Met only when phosphorylated at Tyr1234/1235. This antibody may cross-react with overexpressed tyrosine phosphorylated Src proteins in Western blot. The use of this antibody for IF and F applications are only recommended for cells over expressing phospho-Met (Y1234/1235).				
Source / Purificat		Monoclonal antibody is produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Tyr1234/1235 of human Met.				
Background	fact and spa Me sign for Tyr the dor and	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 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 target (6,7).				
Background Refe	2. E 3. E 4. T 5. S 6. E	 Cooper, C.S. et al. (1984) Nature 311, 29-33. Bottaro, D.P. et al. (1991) Science 251, 802-4. Bardelli, A. et al. (1997) Oncogene 15, 3103-11. Taher, T.E. et al. (2002) J Immunol 169, 3793-800. Schaeper, U. et al. (2000) J Cell Biol 149, 1419-32. Eder, J.P. et al. (2009) Clin Cancer Res 15, 2207-14. 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.

Applications Key

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Phospho-Met (Tvr1234/1235) (D26) XP® Rabbit mAb (#3077) Datasheet Without Images Cell Signaling Tec...

WB: Western Blotting IP: Immunoprecipitation IHC-P: Immunohistochemistry (Paraffin)

IF-IC: Immunofluorescence (Immunocytochemistry) FC-FP: Flow Cytometry (Fixed/Permeabilized)

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 Da: dog Pa: pig Sc: S, cerevisiae Ce: C, elegans Hr: horse

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

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