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## HGF $\beta$ (D6S7D) XP® Rabbit mAb



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

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
WB, IHC-P	H	Endogenous	35, 85	Rabbit IgG	#P14210	3082

<b>Product Usage Information</b>	<b>Application</b> Western Blotting Immunohistochemistry (Paraffin)	<b>Dilution</b> 1:1000 1:200
<b>Storage</b>	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 $\mu$ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at $-20^{\circ}\text{C}$ . Do not aliquot the antibody.	
<b>Specificity / Sensitivity</b>	HGF $\beta$ (D6S7D) XP® Rabbit mAb recognizes endogenous levels of total HGF protein.	
<b>Source / Purification</b>	Monoclonal antibody is produced by immunizing animals with recombinant protein specific to the carboxy terminus of human HGF protein.	
<b>Background</b>	The Hepatocyte Growth Factor (HGF, also known as Scatter Factor) was initially discovered as a mitogenic cytokine that induced hepatocyte replication and proliferation (1-3). HGF is produced by stromal cells where it is processed by extracellular serine proteases into a heterodimer consisting of alpha and beta subunits (4). Through activation of its receptor, cMET, HGF has a wide range of effects beyond hepatocytes that includes angiogenesis, epithelial cell proliferation and morphogenesis, and tissue protection and regeneration (5). The HGF-cMET axis has been associated with several diseases, including cancer, where HGF has been shown to promote invasion, metastasis, and drug resistance (6,7). These research studies suggest that HGF is a potential diagnostic and therapeutic target.	
<b>Background References</b>	1. Nakamura, T. et al. (1984) <i>Biochem Biophys Res Commun</i> 122, 1450-9. 2. Russell, W.E. et al. (1984) <i>J Cell Physiol</i> 119, 183-92. 3. Gohda, E. et al. (1988) <i>J Clin Invest</i> 81, 414-9. 4. Kataoka, H. et al. <i>Cancer Metastasis Rev</i> 22, 223-36. 5. Nakamura, T. and Mizuno, S. (2010) <i>Proc Jpn Acad Ser B Phys Biol Sci</i> 86, 588-610. 6. Matsumoto, K. and Nakamura, T. (2006) <i>Int J Cancer</i> 119, 477-83. 7. Yano, S. et al. (2008) <i>Cancer Res</i> 68, 9479-87.	

<b>Species Reactivity</b>	Species reactivity is determined by testing in at least one approved application (e.g., western blot).
<b>Western Blot Buffer</b>	IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at $4^{\circ}\text{C}$ with gentle shaking, overnight.
<b>Applications Key</b>	<b>WB:</b> Western Blotting <b>IHC-P:</b> Immunohistochemistry (Paraffin)
<b>Cross-Reactivity Key</b>	<b>H:</b> human <b>M:</b> mouse <b>R:</b> rat <b>Hm:</b> hamster <b>Mk:</b> monkey <b>Vir:</b> virus <b>Mi:</b> mink <b>C:</b> chicken <b>Dm:</b> D. melanogaster <b>X:</b> Xenopus <b>Z:</b> zebrafish <b>B:</b> bovine <b>Dg:</b> dog <b>Pg:</b> pig <b>Sc:</b> S. cerevisiae <b>Ce:</b> C. elegans <b>Hr:</b> horse <b>GP:</b> Guinea Pig <b>Rab:</b> rabbit <b>All:</b> all species expected
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