

#52445 Store at -20C

HGF β (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

Product Usage Information	Application Western Blotting Immunohistochemistry (Paraffin)	Dilution 1:1000 1:200
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.	
Specificity / Sensitivity	HGF β (D6S7D) XP® Rabbit mAb recognizes endogenous levels of total HGF protein.	
Source / Purification	Monoclonal antibody is produced by immunizing animals with recombinant protein specific to the carboxy terminus of human HGF protein.	
Background	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.	
Background References	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.	

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