

HGF β (D6S7D) XP[®] Rabbit mAb



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Applications: W, IHC-P	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 35, 85	Source/Isotype: Rabbit IgG	UniProt ID: #P14210	Entrez-Gene Id: 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 μ g/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 $^{\text{\tiny{B}}}$ 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		 Nakamura, T. et al. (1984) Biochem Biophys Res Commun 122, 1450-9. Russell, W.E. et al. (1984) J Cell Physiol 119, 183-92. Gohda, E. et al. (1988) J Clin Invest 81, 414-9. Kataoka, H. et al. Cancer Metastasis Rev 22, 223-36. Nakamura, T. and Mizuno, S. (2010) Proc Jpn Acad Ser B Phys Biol Sci 86, 588-610. Matsumoto, K. and Nakamura, T. (2006) Int J Cancer 119, 477-83. Yano, S. et al. (2008) Cancer Res 68, 9479-87. 				
Species Reacti	vity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).				

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

Applications Key W: Western Blotting IHC-P: Immunohistochemistry (Paraffin)

Cross-Reactivity Key H: Human

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