

#93920 Store at -20°C

HGF β (D6S7D) XP® Rabbit mAb (Biotinylated)


Cell Signaling
TECHNOLOGY®

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

Applications: WB	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 35, 85	Source/Isotype: Rabbit IgG	UniProt ID: #P14210	Entrez-Gene Id: 3082
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Product Usage Information	Application Western Blotting	Dilution 1:1000
Storage	Supplied in 136 mM NaCl, 2.6 mM KCl, 12 mM sodium phosphate (pH 7.4) dibasic, 2 mg/ml BSA, and 50% glycerol. Store at -20°C. Do not aliquot the antibody.	
Specificity / Sensitivity	HGF β (D6S7D) XP® Rabbit mAb (Biotinylated) 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.	
Product Description	This Cell Signaling Technology antibody is conjugated to biotin under optimal conditions. The biotinylated antibody is expected to exhibit the same species cross-reactivity as the unconjugated HGF β (D6S7D) XP® Rabbit mAb #52445.	

MW (kDa)

35, 85

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) *Biochem Biophys Res Commun* 122, 1450-9.
2. Russell, W.E. et al. (1984) *J Cell Physiol* 119, 183-92.
3. Gohda, E. et al. (1988) *J Clin Invest* 81, 414-9.
4. Kataoka, H. et al. *Cancer Metastasis Rev* 22, 223-36.
5. Nakamura, T. and Mizuno, S. (2010) *Proc Jpn Acad Ser B Phys Biol Sci* 86, 588-610.
6. Matsumoto, K. and Nakamura, T. (2006) *Int J Cancer* 119, 477-83.
7. Yano, S. et al. (2008) *Cancer Res* 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

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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