

HOXB13 (D7N8O) Rabbit mAb



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

Applications: W, IP, IHC-P	Reactivity: H Mk	Sensitivity: Endogenous	MW (kDa): 30	Source/Isotype: Rabbit IgG	UniProt ID: #Q92826	Entrez-Gene Id 10481
Product Usage		Application Dilution				
Information		Western Blotting			1:1000	
		Immunoprecipitation			1:50	
		Immunohistochemis			1:	100
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA, 50% glycerol and less tha 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.				
		For a carrier free (BSA and azide free) version of this product see product #85470.				
Specificity/Sensitivity		HOXB13 (D7N8O) Rabbit mAb recognizes endogenous levels of total HOXB13 protein.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Gly11 of human HOXB13 protein.				
Background		HOXB13 is a member of the HOXB cluster which, along with the HOXA, HOXC, and HOXD clusters, governs embryonic patterning along the cranio-caudal axis (1,2). HOXB13 plays a key role in the development of the ventral prostate, where it is expressed highly from the embryonic stage through adulthood (3,4). Research studies have shown that both overexpression and RNA interference can inhibit the growth of prostate cancer cells. HOXB13 can function as a tumor suppressor by negatively regulating growth through repression of TCF4 and androgen receptor (AR) signaling (4,5). However, HOXB13 has also been shown to be overexpressed in more invasive prostate cancers, breast and ovarian cancers, and hepatocellular carcinomas (6-9). A common germline mutation G84E in the HOXB13 protein has recently been found to be associated with significant increased risk of prostate cancer (10). Currently, HOXB13 is being evaluated as a marker for metastatic lesions of prostate origin (11,12).				
Background R	eferences	1. McGinnis, W. and Krumlauf, R. (1992) <i>Cell</i> 68, 283-302. 2. Zeltser, L. et al. (1996) <i>Development</i> 122, 2475-84. 3. Economides, K.D. and Capecchi, M.R. (2003) <i>Development</i> 130, 2061-9. 4. Jung, C. et al. (2004) <i>Cancer Res</i> 64, 3046-51. 5. Jung, C. et al. (2004) <i>Cancer Res</i> 64, 9185-92. 6. Jeong, T.O. et al. (2012) <i>Mol Med Rep</i> 5, 901-4. 7. Shah, N. et al. (2013) <i>Cancer Res</i> 73, 5449-58. 8. Miao, J. et al. (2007) <i>Proc Natl Acad Sci U S A</i> 104, 17093-8. 9. Zhu, J.Y. et al. (2014) <i>Int J Clin Exp Pathol</i> 7, 2925-33. 10. Ewing, C.M. et al. (2012) <i>N Engl J Med</i> 366, 141-9. 11. Barresi, V. et al. (2016) <i>APMIS</i> 124, 188-93. 12. Varinot, J. et al. (2016) <i>Virchows Arch</i> 468, 619-22.				

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

Limited Uses

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

Cross-Reactivity Key

H: Human Mk: Monkey

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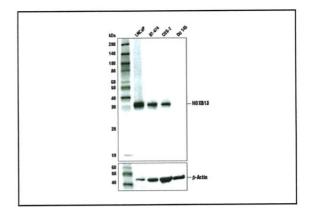
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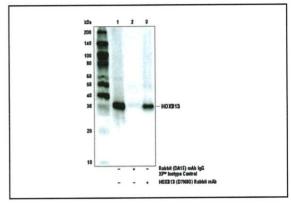
HOXB13 (D7N8O) Rabbit mAb



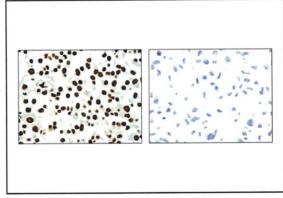
Western blot analysis of extracts from various cell lines using HOXB13 (D7N8O) Rabbit mAb.



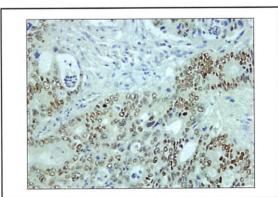
Immunoprecipitation of HOXB13 from LnCAP cell extracts. Lane 1 is 10% input, lane 2 is Rabbit (DA1E) mAb IgG XP® Isotype Control #3900, and lane 3 is HOXB13 (D7N8O) Rabbit mAb. Western blot analysis was performed using HOXB13 (D7N8O) Rabbit mAb.



Immunohistochemical analysis of paraffin-embedded LNCaP cell pellet (left, positive) and DU 145 cell pellet (right, negative) using HOXB13 (D7N8O) Rabbit mAb.



Immunohistochemical analysis of paraffin-embedded human colon carcinoma using HOXB13 (D7N8O) Rabbit mAb.



#90944 HOXB13 (D7N8O) Rabbit mAb



Immunohistochemical analysis of paraffin-embedded human prostate carcinoma using HOXB13 (D7N8O) Rabbit mAb.

