

#7096 Store at -20C

## HIF-2 $\alpha$ (D9E3) Rabbit mAb



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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
WB	H	Endogenous	120	Rabbit IgG	#Q99814	2034

<b>Product Usage Information</b>	<b>Application</b> Western Blotting	<b>Dilution</b> 1:1000
<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°C. Do not aliquot the antibody.	
<b>Specificity / Sensitivity</b>	HIF-2 $\alpha$ (D9E3) Rabbit mAb recognizes endogenous levels of total HIF-2 $\alpha$ protein.	
<b>Source / Purification</b>	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Ala758 of human HIF-2 $\alpha$ protein.	
<b>Background</b>	Hypoxia-inducible factor (HIF) is essential for the cellular response to hypoxia (1,2). Under normoxia conditions, the $\alpha$ subunit of HIF is ubiquitinated by von Hippel-Lindau (VHL) protein and is degraded in the ubiquitin/proteasome pathway (1,2). Hypoxia inhibits degradation of the $\alpha$ subunit, which leads to its stabilization (1,2). HIF, in turn, regulates the transcription of a variety of genes that respond to hypoxia conditions (1,2). There are several isoforms of the HIF $\alpha$ subunit (2). Studies have found that HIF-1 $\alpha$ and HIF-2 $\alpha$ expression is increased in some human cancers (2). HIF-1 $\alpha$ has both pro- and anti-proliferative activities, whereas HIF-2 $\alpha$ does not possess anti-proliferative activity (2). Therefore, HIF-2 $\alpha$ likely plays an important role in tumorigenesis (2,3).	
<b>Background References</b>	<ol style="list-style-type: none"> <li>1. Kaelin, W.G. (2005) <i>Biochem Biophys Res Commun</i> 338, 627-38.</li> <li>2. Toschi, A. et al. (2008) <i>J Biol Chem</i> 283, 34495-9.</li> <li>3. Gordan, J.D. and Simon, M.C. (2007) <i>Curr Opin Genet Dev</i> 17, 71-7.</li> </ol>	

<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°C with gentle shaking, overnight.
<b>Applications Key</b>	<b>WB:</b> Western Blotting
<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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