Revision 3

Store at -20C

#59973

HIF-2α (D6T8V) Rabbit mAb

Cell Signaling TECHNOLOGY®

Orders: 877-616-CELL (2355)
orders@cellsignal.com

Support: 877-678-TECH (8324)

Web: info@cellsignal.com
cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

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

Product Usage Information

For optimal ChIP results, use 5 µl of antibody and 10 µg of chromatin (approximately 4 × 10^6 cells) per IP. This antibody has been validated using SimpleChIP® Enzymatic Chromatin IP Kits.

Application	Dilution
Western Blotting	1:1000
Chromatin IP	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

HIF-2α (D6T8V) Rabbit mAb recognizes endogenous levels of total HIF-2α protein. This antibody does not cross-react with HIF-1α protein.

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Gly688 of human HIF-2α protein.

Background

Hypoxia-inducible factor (HIF) is essential for the cellular response to hypoxia (1,2). Under normoxia conditions, the α 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 α 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 α subunit (2). Studies have found that HIF-1α and HIF-2α expression is increased in some human cancers (2). HIF-1α has both pro- and anti-proliferative activities, whereas HIF-2α does not possess anti-proliferative activity (2). Therefore, HIF-2α likely plays an important role in tumorigenesis (2,3).

Background References

1. Kaelin, W.G. (2005) *Biochem Biophys Res Commun* 338, 627-38.
2. Toschi, A. et al. (2008) *J Biol Chem* 283, 34495-9.
3. Gordan, J.D. and Simon, M.C. (2007) *Curr Opin Genet Dev* 17, 71-7.

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 nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting **ChIP:** Chromatin IP

Cross-Reactivity Key

H: Human

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Limited Uses

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