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#7096

## HIF-2α (D9E3) Rabbit mAb

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

<b>Applications:</b> W	<b>Reactivity:</b> H	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 120	<b>Source/Isotype:</b> Rabbit IgG	<b>UniProt ID:</b> #Q99814	<b>Entrez-Gene Id:</b> 2034
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### Product Usage Information

#### Application

Western Blotting

#### Dilution

1:1000

### 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 (D9E3) Rabbit mAb recognizes endogenous levels of total HIF-2α protein.

### Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Ala758 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 BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

### Applications Key

**W:** Western Blotting

### Cross-Reactivity Key

**H:** Human

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