

**MOUSE ANTI-HYPOXIA INDUCIBLE FACTOR-1alpha
MONOCLONAL ANTIBODY**

CATALOG NUMBER:	MAB5382
LOT NUMBER:	
QUANTITY:	100 µg
CONCENTRATION:	1.0 mg/mL
SPECIFICITY:	Hypoxia inducible factor-1alpha (HIF-1alpha).
IMMUNOGEN:	Fusion protein from amino acids 432-528 of human HIF-1alpha.
ISOTYPE:	IgG _{2b}
APPLICATIONS:	Western blot: 1:500-1:1,000. The antibody recognizes a band of 120 kD in induced tissues and cells. Multiple bands may be present at 120 kD representing post-translational modification of HIF-1alpha. Immunohistochemistry: 1:500-1:1,000. The antibody has been used successfully on formalin-fixed, paraffin embedded tissue sections after antigen retrieval. Immunoprecipitation Gel Shift Optimal working dilutions must be determined by end user.
SPECIES REACTIVITIES:	Human, rat, mouse, sheep and ferret. Reactivity with other species has not yet been determined.
FORMAT:	Purified immunoglobulin.
PRESENTATION:	Liquid in 0.02M Phosphate buffer, containing 0.25M NaCl and 0.1% azide.
STORAGE/HANDLING:	Maintain at 2-8°C in undiluted aliquots for up to 6 months after date of receipt. .
REFERENCES:	Wang, G.L. and Semenza, G.L. Purification and Characterization of Hypoxia-inducible Factor 1. <i>Journal of Biological Chemistry</i> . 270 (3): 1230-1237, 1995. Semenza, GL, Hypoxia-inducible factor 1 and the molecular physiology of oxygen homeostasis. <i>J. Lab Clinical Medicine</i> . 131 : 207-214, 1998. Iyer, NV, et al, Cellular and developmental control of O ₂ homeostasis by hypoxia-inducible factor alpha. <i>Genes and Development</i> . 12 (2): 149-162, 1998. Kaelin, W.G. Many vessels, faulty gene. <i>Nature</i> . 399 : 203-204, 1999. Feldser, D., et al. Reciprocal Positive Regulation of Hypoxia-inducible Factor 1alpha and Insulin-like Growth Factor 2. <i>Cancer Research</i> . 59 : 3915-3918, 1999. Nguyen, S.V., and Claycomb, W.C. "Hypoxia Regulates the Expression of the Adrenomedullin and HIF-1 Genes in Cultured HL-1 Cardiomyocytes. <i>Biochem. Biophys. Res. Comm.</i> 265 : 382-386, 1999.

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Agani, F.H., et al. "The Role of Mitochondria in the Regulation of Hypoxia-inducible Factor 1 Expression During Hypoxia". *Journal of Biological Chemistry* **275**:35863-35867.

Important Note: *During shipment, small volumes of product will occasionally become entrapped in the seal of the product vial. For products with volumes of 200 μ L or less, we recommend gently tapping the vial on a hard surface or briefly centrifuging the vial in a tabletop centrifuge to dislodge any liquid in the container's cap.*

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