



HIF-1 α . Mouse, Clone H1alpha67 Monoclonal Antibody, Human, Sheep, Mouse, Rat, Ferret

BACKGROUND

Recognizes a 120kDa protein, identified as the alpha subunit of hypoxia-inducible factor-1 (HIF-1). HIF-1 is a heterodimer consisting of an alpha and a beta subunit, both belonging to the basic-helix-loop-helix Per-aryl hydrocarbon receptor nuclear translocator-Sim (PAS) family of transcription factors. HIF-1 is a key component of a widely operative transcriptional response activated by hypoxia, cobaltous ions, and iron chelation. HIF-1 activates transcription of hypoxia-inducible genes, including those encoding: erythropoietin, vascular endothelial growth (VEGF), heme oxygenase-1, inducible nitric oxide synthase, and the glycolytic enzymes aldolase A, enolase 1, lactate dehydrogenase A, phosphofructokinase I, and phosphoglycerate kinase 1. The C-terminal of HIF-1 alpha binds to p300. p300/CBP-HIF complexes participate in the induction of hypoxia-responsive genes, including VEGF.

ORDERING INFORMATION

CATALOG NUMBER
X1376M

SIZE
100 μ g

FORM
Purified

HOST/CLONE
Mouse, Clone H1alpha67

FORMULATION
Provided as solution in phosphate buffered saline with 0.08% sodium azide

CONCENTRATION
1 mg/ml

ISOTYPE
IgG2b

APPLICATIONS
Immunoprecipitation
Western Blotting
Immunohistochemistry
Frozen Tissue Staining
Paraffin Section

IMMUNOGEN

Hybridoma produced by the fusion of splenocytes from BALB/c mice immunized with human HIF-1 (amino acids 432-528) protein and mouse myeloma NS1 cells.

SPECIES REACTIVITY

Human, Sheep, Mouse, Rat, Ferret

COMMENTS

This antibody can be used for immunoprecipitation (2 μ g/mg of protein lysate), Western blotting (0.5-1.0 μ g/ml) and immunohistochemistry on frozen and formalin/paraffin tissue sections (2-4 μ g/ml). Optimal concentration should be evaluated by serial dilutions.

STORAGE CUSTOMER

Product should be stored at -20 degrees C. Aliquot to avoid freeze/thaw cycles

STABILITY

Products are stable for one year from purchase when stored properly

POSITIVE CONTROL

Mammalian cells cultured under reduced O₂ tension

SHIP CONDITIONS

Room Temperature

REFERENCES

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