

Product Data Sheet: HIF-1alpha

Cat. No: AB-84304

Conjugate: Unconjugated

Size: 100 ug Clone: **POLY**

Concentration: 1mg/ml Host: Rb Isotype: IqG

Immunogen: Recombinant protein of human HIF1α.

Reactivity: Hu, Ms, Rt

Western Blot: 1:500 - 1:2000 **Applications:**

Immunohistochemistry: 1:50 - 1:200

Molecular

Background:

110kDa Weight:

Purification: Aff. Pur.

Synonyms: HIF1A;HIF-1-alpha;HIF-1A;HIF-1alpha;HIF1;HIF1-ALPHA;MOP1;PASD8;bHLHe78

> This gene encodes the alpha subunit of transcription factor hypoxia-inducible factor-1 (HIF-1), which is a heterodimer composed of an alpha and a beta subunit. HIF-1 functions as a master regulator of cellular and systemic homeostatic response to hypoxia by activating transcription of many genes, including those involved in

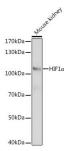
energy metabolism, angiogenesis, apoptosis, and other genes whose protein products increase oxygen delivery or facilitate metabolic adaptation to hypoxia.

HIF-1 thus plays an essential role in embryonic vascularization, tumor angiogenesis and pathophysiology of ischemic disease. Alternatively spliced transcript variants

encoding different isoforms have been identified for this gene.

Form: Liquid

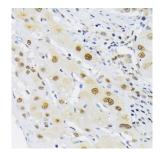
Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3. Store at -20°C, and avoid repeat freeze-thaw cycles. Storage:



Western blot analysis of extracts of mouse kidney, using $HIF1\alpha$ antibody at 1:1000 dilution.

Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) at 1:10000 dilution.

Lysates/proteins: 25ug per lane. Blocking buffer: 3% nonfat dry milk in



Immunohistochemistry of paraffin Embedded human liver cancer using $HIF1\alpha$ antibody at dilution of 1:200 (40x lens).



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TBST.
Detection: ECL West Pico Plus.
Exposure time: 5s.

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