

**Mouse Anti-HIF-2 alpha/EPAS1 [190b]: MC0225, MC0225RTU7**

**Intended Use:** For Research Use Only

**Description:** Hypoxia-inducible factor (HIF) is essential for the cellular response to hypoxia. Under normoxia conditions, the  $\alpha$  subunit of HIF is ubiquitinated by von Hippel-Lindau (VHL) protein and is degraded in the ubiquitin/proteasome pathway. Hypoxia inhibits the degradation of the  $\alpha$  subunit, which leads to its stabilization. HIF, in turn, regulates the transcription of a variety of genes that respond to hypoxia conditions. There are several isoforms of the HIF  $\alpha$  subunit. Studies have found that HIF-1 $\alpha$  and HIF-2 $\alpha$  expression is increased in some human cancers. HIF-1 $\alpha$  has both pro- and anti-proliferative activities, whereas HIF-2 $\alpha$  does not possess anti-proliferative activity. Therefore, HIF-2 $\alpha$  likely plays an important role in tumorigenesis.

**Specifications:**

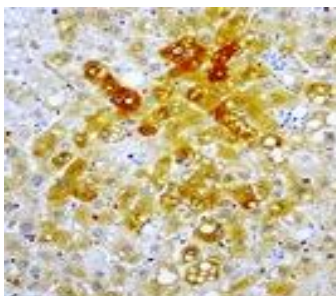
Clone: 190b  
 Source: Mouse  
 Isotype: IgG1k  
 Reactivity: Human, mouse, rat  
 Immunogen: Recombinant protein of human recombinant HIF-2 alpha  
 Localization: Nucleus, cytoplasm  
 Formulation: Purified antibody in PBS pH7.4, containing BSA and  $\leq 0.09\%$  sodium azide (NaN<sub>3</sub>)  
 Storage: Store at 2°- 8°C  
 Applications: IHC, ELISA, ICC/IF, IP, WB  
 Package:

Description	Catalog No.	Size
HIF-2 alpha/EPAS1 Concentrated	MC0225	1 ml
HIF-2 alpha/EPAS1 Prediluted	MC0225RTU7	7 ml

**IHC Procedure\*:**

Positive Control Tissue: Colon tissue  
 Concentrated Dilution: 50-200  
 Pretreatment: Tris EDTA pH9.0, 15 minutes using Pressure Cooker, or 30-60 minutes using water bath at 95°-99°C  
 Incubation Time and Temp: 30-60 minutes @ RT  
 Detection: Refer to the detection system manual

\* Result should be confirmed by an established diagnostic procedure.



FFPE human HCC stained with anti-HIF-2 alpha using DAB

**References:**

- HIF-1 $\alpha$  and HIF-2 $\alpha$  differently regulate tumour development and inflammation of clear cell renal cell carcinoma in mice. Hoefflin R, et al. Nat Commun 11:4111, 2020.
- Similarities Between Stem Cell Niches in Glioblastoma and Bone Marrow: Rays of Hope for Novel Treatment Strategies. Hira VVV, et al. J Histochem Cytochem 68:33-57, 2020.
- DKK4 enhances resistance to chemotherapeutics 5-Fu and YN968D1 in colorectal cancer cells. He S, et al. Oncol Lett 13:587-592, 2017.

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Rev. A