

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 α 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 α 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 α subunit. Studies have found that HIF-1 α and HIF-2 α expression is increased in some human cancers. HIF-1 α has both pro- and anti-proliferative activities, whereas HIF-2 α does not possess anti-proliferative activity. Therefore, HIF-2 α likely plays an important role in tumorigenesis.

Specifications:

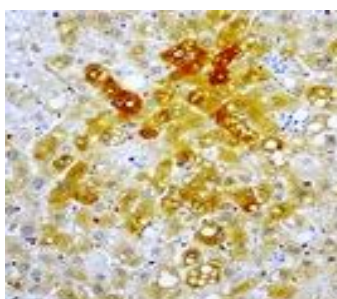
Clone:	190b
Source:	Mouse
Isotype:	IgG1k
Reactivity:	Human, mouse, rat
Immunogen:	Recombinant protein of human recombinant HIF-2 alpha
Localization:	Nucleus, cytoplasm
Formulation:	Purified antibody in PBS pH7.4, containing BSA and $\leq 0.09\%$ sodium azide (NaN ₃)
Storage:	Store at 2°- 8°C
Applications:	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 Pressure Cooker or 30-60 minutes 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:

1. HIF-1 α and HIF-2 α differently regulate tumour development and inflammation of clear cell renal cell carcinoma in mice. Hoefflin R, et al. Nat Commun 11:4111, 2020.
2. 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.
3. DKK4 enhances resistance to chemotherapeutics 5-Fu and YN968D1 in colorectal cancer cells. He S, et al. Oncol Lett 13:587-592, 2017.