

**Rabbit Anti-HIF-1 alpha [RM242]: RM0408**

**Intended Use:** For Research Use Only

**Description:** The HIF-1 Alpha subunit of hypoxia-inducible factor 1 is a transcription factor that functions as a master transcriptional regulator of the adaptive response to hypoxia. HIF-1 activates the transcription of many genes, thus playing a role in various biological processes, including cardiovascular development, angiogenesis, energy metabolism, and cell survival.

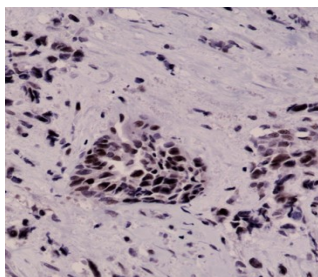
**Specifications**

Clone: RM242  
Source: Rabbit  
Isotype: IgG  
Reactivity: Human  
Localization: Nucleus, cytoplasm  
Formulation: 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,WB  
Package:

Description	Catalog No.	Size
HIF-1 alpha Concentrated	RM0408	1 ml

**IHC Procedure**

Positive Control: Breast carcinoma  
Concentrated Dilution: 50-200  
Pretreatment: Citrate pH6.0 or EDTA pH8.0, 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 breast carcinoma tissue stained with anti-HIF-1 alpha using DAB

**References:**

1. Hypoxia-Inducible Factor-1 $\alpha$  Is Associated With Sprouting Angiogenesis in the Murine Laser-Induced Choroidal Neovascularization Model. André H, et al. Invest Ophthalmol Vis Sci. Oct;56(11):6591-604, 2015.
2. CXCR7 and CXCR4 Expressions in Infiltrative Astrocytomas and Their Interactions with HIF1 $\alpha$  Expression and IDH1 Mutation. Bianco AM, et al. Pathol Oncol Res. Apr;21(2):229-40, 2015.
3. HIF-1 $\alpha$ , VEGF and WT-1 are protagonists in bilateral primary angiosarcoma of breast: a case report and review of literature. Al-Salam S, et al. Int J Clin Exp Pathol. 5(3):247-53, 2012.
4. Hypoxia and the expression of HIF-1alpha and HIF-2alpha in the retina of streptozotocin-injected mice and rats. Wright WS, et al. Exp Eye Res. Mar;90(3):405-12, 2010.