

## Anti-HIF-1-alpha/HIF1A Antibody Picoband® APC Conjugated

Catalog Number: PB9253-APC

### About HIF1A

HIF-1alpha (Hypoxia-inducible factor 1alpha, HIF1A) is a transcription factor that mediates cellular and systemic homeostatic responses to reduced O<sub>2</sub> availability in mammals, including angiogenesis, erythropoiesis and glycolysis. This gene was mapped to 14q21-q24. HIF-1alpha transactivate genes required for energy metabolism and tissue perfusion and is necessary for embryonic development and tumor explant growth. HIF-1alpha is over expressed during carcinogenesis, myocardial infarction and wound healing. It is crucial for the cellular response to hypoxia and is frequently over expressed in human cancers, resulting in the activation of genes essential for cell survival. HIF-1alpha regulates the survival and function in the inflammatory microenvironment directly. It is a transcription factor that plays a pivotal role in cellular adaptation to changes in oxygen availability.

### Overview

|                      |  |
|----------------------|--|
| Product Name         | Anti-HIF-1-alpha/HIF1A Antibody Picoband® APC Conjugated   |
| Reactive Species     | Human, Mouse, Rat  |
| Application          | Flow Cytometry   |
| Clonality            | Polyclonal   |
| Formulation          | Each vial contains 50% glycerol, 0.9% NaCl, 0.2% Na <sub>2</sub> HPO <sub>4</sub> , 0.02% NaN <sub>3</sub> . |
| Storage Instructions | At -20°C for one year from date of receipt. Avoid repeated freezing and thawing. Protect from light.         |
| Host                 | Rabbit   |
| Uniprot ID           | Q16665   |

### Technical Details

|                  |  |
|------------------|--|
| Immunogen        | A synthetic peptide corresponding to a sequence at the C-terminal of human HIF-1-alpha, different from the related mouse and rat sequences by three amino acids. |
| Cross Reactivity | No cross-reactivity with other proteins  |
| Isotype          | Rabbit IgG   |
| Form             | Liquid   |
| Concentration    | 0.5 mg/mL  |
| Purification     | Immunogen affinity purified.   |
| Conjugate        | APC<br>Excitation Wavelength: 633-647 nm<br>Emission Wavelength: 660 nm  |

Suggested Dilutions

Flow Cytometry, Optimal dilutions should be determined by end users.

## 74 Publications Citing This Product

1. PubMed ID: 10.3748/wjg.v17.i14.1915, Oxidative stress and hypoxia-induced factor 1alpha expression in gastric ischemia
2. PubMed ID: 10.3109/03008200902855891, Effect of Negative Pressure on Human Bone Marrow Mesenchymal Stem Cells In Vitro
3. PubMed ID: 10.18632/oncotarget.9899, CD47 deficiency in tumor stroma promotes tumor progression by enhancing angiogenesis

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