

Anti-HIF-1 alpha/HIF1A Antibody Picoband® FITC Conjugated

Catalog Number: A00013-1-FITC

About HIF1A

HIF-1alpha (Hypoxia-inducible factor 1alpha, HIF1A) is a transcription factor that mediates cellular and systemic homeostatic responses to reduced O₂ availability in mammals, including angiogenesis, erythropoiesis and glycolysis. This gene was mapped to 14q21-q24. HIF-1alpha transactivates 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® FITC Conjugated
Reactive Species	Human
Application	Recommended applications are based on the parent unconjugated antibody (ELISA, WB). Customers may select suitable applications according to their experimental needs.
Clonality	Polyclonal
Formulation	Each vial contains 50% glycerol, 0.9% NaCl, 0.2% Na ₂ HPO ₄ , 0.02% NaN ₃ .
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	E.coli-derived human HIF-1 alpha/HIF1A recombinant protein (Position: H197-R718).
Cross Reactivity	No cross-reactivity with other proteins.
Isotype	Rabbit IgG
Form	Liquid
Concentration	0.5 mg/mL
Purification	Immunogen affinity purified.
Conjugate	FITC Excitation Wavelength: 495 nm Emission Wavelength: 525 nm

Suggested Dilutions

Optimal dilutions should be determined by end users.

11 Publications Citing This Product

1. PubMed ID: 10.1038/s41419-020-02781-7, p53 isoform β 113p53 promotes zebrafish heart regeneration by maintaining redox homeostasis
2. PubMed ID: 33757812, Qu KS, Luo Y, Yan XN, Kuai L, Ru Y, Yue Luo, Song JK, Ji WL, Li B, Xing M. Qinzhuliangxue mixture alleviates psoriasis-like skin lesions via inhibiting the IL6/STAT3 axis. *J Ethnopharmacol.* 2021 Mar 20:114041. doi: 10.1016/j.jep.2021.114041. Epub ahead of print. PMID: 33757812.
3. PubMed ID: 32703938, Ye S,Zhao T,Zhang W,Tang Z,Gao C,Ma Z,Xiong JW,Peng J,Tan WQ,Chen J,p53 isoform β 113p53 promotes zebrafish heart regeneration by maintaining redox homeostasis.*Cell Death Dis.*2020 Jul 23;11(7):568.doi:10.1038/s41419-020-02781-7.PMID:32703938;PMCID:PMC73782

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