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Produktinformation

- Forschungsprodukte & Biochemikalien
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- Diagnostik & molekulare Diagnostik
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See the following pages for more information!

Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Anti-HIF1 Alpha Antibody [ESEE122]

Mouse Anti-Mouse HIF1 alpha Monoclonal IgG1
Catalog No. SMC-184

StressMarq Biosciences INC.
Discovery through partnership | Excellence through quality

Overview

Product Name

HIF1 alpha Antibody

Description

Mouse Anti-Mouse HIF1 alpha Monoclonal IgG1

Species Reactivity

Human, Mouse, Rat, Bovine

Applications

WB, IHC, ICC/IF, ELISA

Antibody Dilution

WB (1:1000), IHC (1:100), ICC/IF (1:50); optimal dilutions for assays should be determined by the user.

Host Species

Mouse

Immunogen Species

Mouse

Immunogen

Recombinant fragment corresponding to amino acids 329-530

Concentration

1 mg/ml

Conjugates

Alkaline Phosphatase, APC, ATTO 390, ATTO 488, ATTO 565, ATTO 594, ATTO 633, ATTO 655, ATTO 680, ATTO 700, Biotin, FITC, HRP, PE/ATTO 594, PerCP, RPE, Streptavidin, Unconjugated

Properties

Storage Buffer

PBS pH7.4, 50% glycerol, 0.09% sodium azide

Storage Temperature

-20ºC

Shipping Temperature

Blue Ice or 4ºC

Purification

Protein G Purified

Clonality

Monoclonal

Clone Number

ESEE122

Isotype

IgG1

Specificity

Detects ~116kDa. Specific for HIF1Alpha.

Cite This Product

Mouse Anti-Mouse HIF 1 alpha Monoclonal, Clone ESEE122 (StressMarq Biosciences Inc., Victoria BC CANADA, Catalog # SMC-184)

Certificate Of Analysis

1 µg/ml of SMC-184 was sufficient for detection of HIF1? in 20 µg of CoCl2-induced Hela cell lysate by colorimetric immunoblot analysis using Goat anti-mouse IgG:HRP as the secondary antibody.

Biological Description

Alternative Names

ARNT interacting protein Antibody, HIF1A Antibody, Hypoxia inducible factor 1 alpha Antibody, MOP1 Antibody, PASD8 Antibody

Research Areas

Cancer, Cell Signaling, Epigenetics, Oxidative Stress

Cellular Localization

Cytoplasm, Nucleus

Accession Number

NP_034561.2

Gene ID

15251

Swiss Prot

Q61221

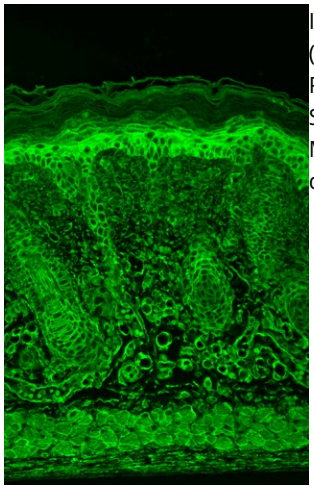
Scientific Background

Hypoxia-inducible factor 1 (HIF1) is a heterodimeric transcription factor that plays a critical role in the cellular response of hypoxia (1). The HIF1 complex consists of two subunits, HIF1-Alpha and HIF1-Beta, which are basic helix-loop-helix proteins of the PAS family (2). HIF1 regulates the transcription of a broad range of genes that facilitate responses to the hypoxic environment, including genes regulating angiogenesis, erythropoiesis, cell cycle, metabolism and apoptosis. The widely expressed HIF-1? is typically degraded rapidly in normoxic cells by the ubiquitin/proteasomal pathway. Under normoxic conditions, HIF-1? is proline hydroxylated leading to a conformational change that promotes binding to the von Hippel Lindau protein (VLH) E3 ligase complex; ubiquitination and proteasomal degradation follows (3, 4). Both hypoxic conditions and chemical hydroxylase inhibitors (such as desferrioxamine and cobalt) inhibit HIF-1? degradation and lead to its stabilization. In addition, HIF-1? can be induced in an oxygen-independent manner by various cytokines through the PI3K-AKT-mTOR pathway (5-7).

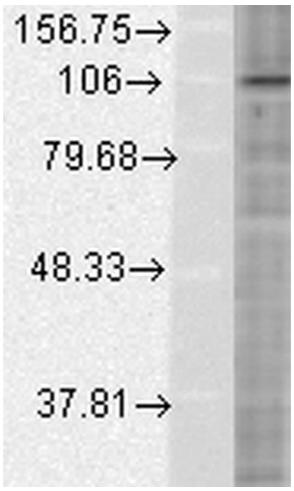
References

1. Sharp F.R. and Bernaudin M. (2004) Nat Rev Neurosci 5: 437-48.
2. Wang G.L., et al. (1995) Proc Natl Acad Sci U S A 92: 5510-4.
3. Jaakkola P., et al. (2001) Science 292: 468-72.
4. Maxwell P.H., et al. (1999) Nature 399: 271-5.
5. Fukuda R., et al. (2002) J Biol Chem 277: 38205-11.
6. Jiang B.H., et al. (2001) Cell Growth Differ 12: 363-9.
7. Laughner E., et al. (2001) Mol Cell Biol 21: 3995-4004.

Product Images



Immunohistochemistry analysis using Mouse Anti-HIF1 alpha Monoclonal Antibody, Clone ESEE122 (SMC-184). Tissue: backskin. Species: Mouse. Fixation: Bouin's Fixative and paraffin-embedded. Primary Antibody: Mouse Anti-HIF1 alpha Monoclonal Antibody (SMC-184) at 1:100 for 1 hour at RT. Secondary Antibody: FITC Goat Anti-Mouse (green) at 1:50 for 1 hour at RT. Localization: Membranous and cytoplasmic localization in the epidermis, positive hair follicles, muscle and dermis. .



Western Blot analysis of Human HeLa cell lysates showing detection of HIF1 alpha protein using Mouse Anti-HIF1 alpha Monoclonal Antibody, Clone ESEE122 (SMC-184). Load: 15 µg protein. Block: 1.5% BSA for 30 minutes at RT. Primary Antibody: Mouse Anti-HIF1 alpha Monoclonal Antibody (SMC-184) at 1:500 for 2 hours at RT. Secondary Antibody: Sheep Anti-Mouse IgG: HRP for 1 hour at RT.

Product Citations (1)

Immunocytochemistry/Immunofluorescence

The effect of estrogen on prolidase-dependent regulation of HIF-1? expression in breast cancer cells.

Surazynski, A., Miltyk, W., Prokop, I. and Palka, J. -2013 Mol Cell Biochem. 379(1-2):29-36.

PubMed ID: 23549681 **Reactivity:** Human **Applications:** Immunocytochemistry/Immunofluorescence

Reviews

Based on validation through cited publications.

★★★★★

StressMarq Biosciences

June 14, 2016: