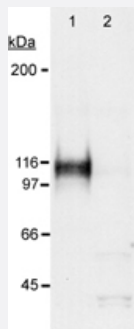


Hif1a polyclonal antibody

Catalog # PAB12138 Size 100 uL

Applications



Western Blot (Cell lysate)

Western blot analysis of Hif1a in a hypoxic sample using Hif1a polyclonal antibody (Cat # PAB12138). Lane 1 : CoCl₂ treated COS-7 nuclear extract (50 ug, hypoxic). Lane 2 : Untreated COS-7 nuclear extract (50 ug, normoxic). 10 second ECL exposure.

Specification

Product Description	Rabbit polyclonal antibody raised against partial recombinant Hif1a.
Immunogen	Recombinant protein corresponding to amino acids 530-825 of mouse Hif1a.
Host	Rabbit
Reactivity	Goat, Mouse
Specificity	This antibody is specific to mouse HIF-1 alpha.
Form	Liquid
Purification	Immunogen affinity purification
Quality Control Testing	Antibody Reactive Against Recombinant Protein.
Recommend Usage	<p>Chromatin Immunoprecipitation (1:10-1:500)</p> <p>Immunocytochemistry (1:100)</p> <p>Immunofluorescence (1:100)</p> <p>Immunohistochemistry (Frozen sections) (5-10 ug/mL)</p> <p>Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) (5-10 ug/mL)</p> <p>Western Blot (1-2 ug/mL)</p> <p>The optimal working dilution should be determined by the end user.</p>

Storage Buffer	In PBS (0.02% sodium azide)
Storage Instruction	Store at -20°C.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot (Cell lysate)

Western blot analysis of Hif1a in a hypoxic sample using Hif1a polyclonal antibody (Cat # PAB12138). Lane 1 : CoCl₂ treated COS-7 nuclear extract (50 ug, hypoxic). Lane 2 : Untreated COS-7 nuclear extract (50 ug, normoxic). 10 second ECL exposure.

- Immunohistochemistry

Gene Info — Hif1a

Entrez GeneID	15251
Protein Accession#	Q61221
Gene Name	Hif1a
Gene Alias	AA959795, HIF-1alpha, HIF1alpha, MOP1
Gene Description	hypoxia inducible factor 1, alpha subunit
Gene Ontology	Hyperlink
Gene Summary	O
Other Designations	OTTMUSP00000021321

Publication Reference

- [89 Zr Immuno-PET Imaging of Tumor PD-1 Reveals That PMA Upregulates Lymphoma PD-1 through NF κ B and JNK Signaling.](#)

Kyung-Ho Jung, Jin Hee Lee, Mina Kim, Young Seok Cho, Kyung-Han Lee.

Molecular Imaging 2022 Feb; 2022:5916692.

Application: WB-Ce, WB-Ti, Mouse, EL4 cells

- [Esterification promotes the intracellular accumulation of roxadustat, an activator of hypoxia-inducible factors, to extend its effective duration.](#)

Taku Nakai, Daisuke Saigusa, Yuma Iwamura, Yotaro Matsumoto, Keiko Umeda, Koichiro Kato, Hayato Yamaki, Yoshihisa Tomioka, Ikuo Hirano, Seizo Koshiba, Masayuki Yamamoto, Norio Suzuki.

Biochemical Pharmacology 2022 Mar; 197:114939.

Application: WB-Ce, Human, Hep 3B2.1-7 (Hep 3B, Hep-3B, Hep3B) cells

- [Celecoxib-Induced Modulation of Colon Cancer CD133 Expression Occurs through AKT Inhibition and Is Monitored by 89 Zr Immuno-PET.](#)

Kyung-Ho Jung, Jin Hee Lee, Mina Kim, Eun Ji Lee, Young Seok Cho, Kyung-Han Lee.

Molecular Imaging 2022 Jan; 2022:4906934.

Application: WB-Ce, Human, HT-29 cells

- [Transforming growth factor- \$\beta\$ 1 decreases erythropoietin production through repressing hypoxia-inducible factor 2 \$\alpha\$ in erythropoietin-producing cells.](#)

Hong-Mou Shih, Szu-Yu Pan, Chih-Jen Wu, Yu-Hsiang Chou, Chun-Yuan Chen, Fan-Chi Chang, Yi-Ting Chen, Wen-Chih Chiang, Hsing-Chen Tsai, Yung-Ming Chen, Shuei-Liong Lin.

Journal of Biomedical Science 2021 Nov; 28(1):73.

Application: ChIP, WB-Ce, WB-Tr, Mouse, 10T1/2, NIH/3T3 cells

- [Detection of novel metabolite for Roxadustat doping by global metabolomics.](#)

Saigusa D, Suzuki N, Matsumoto Y, Umeda K, Tomioka Y, Koshiba S, Yamamoto M.

Journal of Biochemistry 2018 Jun; 163(6):e1.

Application: WB-Ce, Human, Hep3B cells

- [Hypoxia Signaling Cascade for Erythropoietin Production in Hepatocytes.](#)

Tojo Y, Sekine H, Hirano I, Pan X, Souma T, Tsujita T, Kawaguchi S, Takeda N, Takeda K, Fong GH, Dan T, Ichinose M, Miyata T, Yamamoto M, Suzuki N.

Molecular and Cellular Biology 2015 Aug; 35(15):2658.

Application: WB, WB-Ti, Humna, Mouse, Livers, Hep3B cells

- [Oxidized Low-Density Lipoprotein Stimulates Macrophage 18F-FDG Uptake via Hypoxia-Inducible Factor-1 \$\alpha\$ Activation Through Nox2-Dependent Reactive Oxygen Species Generation.](#)

Lee SJ, Thien Quach CH, Jung KH, Paik JY, Lee JH, Park JW, Lee KH.

Journal of Nuclear Medicine 2014 Oct; 55(10):1699.

Application: WB-Ce, WB-Tr, Mouse, RAW264.7 cells

- [Impaired DNA double-strand break repair contributes to chemoresistance in HIF-1 alpha-deficient mouse embryonic fibroblasts.](#)

Wirthner R, Wrann S, Balamurugan K, Wenger RH, Stiehl DP.

Carcinogenesis 2008 Oct; 29(12):2306.

- [HIF1alpha is essential for normal intrauterine differentiation of alveolar epithelium and surfactant production in the newborn lung of mice.](#)

Saini Y, Harkema JR, LaPres JJ.

The Journal of Biological Chemistry 2008 Nov; 283(48):33650.

Application: IHC-P, WB-Ti, Mouse, Mouse lung

- [High oxygen prevents fetal lethality due to lack of catecholamines.](#)

Ream MA, Chandra R, Peavey M, Ray AM, Roffler-Tarlov S, Kim HG, Wetsel WC, Rockman HA, Chikaraishi DM.

American Journal of Physiology. Regulatory, Integrative and Comparative Physiology 2008 Sep; 295(3):R942.

Application: WB, Mouse, Protein samples were obtained from flash frozen E12.5 fetuses from dams exposed to either normoxia or hypoxia

- [Hypoxia-inducible factor-1alpha is a key regulator of metastasis in a transgenic model of cancer initiation and progression.](#)

Liao D, Corle C, Seagroves TN, Johnson RS.

Cancer Research 2007 Jan; 67(2):563.

Application: WB-Ce, Mouse, Primary culture of mouse mammary epithelial cells

- [Increased expression of HIF-1alpha, nNOS, and VEGF in the cerebral cortex of anemic rats.](#)

McLaren AT, Marsden PA, Mazer CD, Baker AJ, Stewart DJ, Tsui AK, Li X, Yucel Y, Robb M, Boyd SR, Liu E, Yu J, Hare GM.

American Journal of Physiology. Regulatory, Integrative and Comparative Physiology 2007 Jan; 292(1):R403.

Application: IF, IHC, WB, Rat, Rat brains