Performance guarenteed



Product Details

Size	100 μL
Species Reactivity	Dog, Fish, Hamster, Human, Mouse, Non-human primate, Pig, Rabbit, Rat
Published Species	Rabbit, Rat, Human, Mouse
Host/Isotype	Rabbit / IgG
Class	Polyclonal
Туре	Antibody
Conjugate	Unconjugated
Immunogen	A fusion protein including residues 530-825 of the mouse HIF-1 alpha protein.
Form	Liquid
Concentration	1 mg/mL
Purification	Antigen affinity chromatography
Storage buffer	PBS
Contains	0.02% sodium azide
Storage conditions	-20°C
RRID	AB_2117128

Applications	Tested Dilution	Publications
Western Blot (WB)	1-2 µg/mL	14 Publications
Immunohistochemistry (IHC)	-	5 Publications
Immunohistochemistry (Paraffin) (IHC (P))	5-10 μg/mL	1 Publication
Immunohistochemistry (Frozen) (IHC (F))	5-10 μg/mL	-
Immunocytochemistry (ICC/IF)	1:100	1 Publication
Flow Cytometry (Flow)	1:10-1:1,000	1 Publication
Immunoprecipitation (IP)	1:10-1:500	2 Publications
ChIP assay (ChIP)	1:10-1:500	1 Publication

Product Specific Information

This antibody detects upregulation of HIF-1 alpha in hypoxic samples.

Recommended positive controls: Human pancreas whole tissue lysate, COS-7 nuclear hypoxic induced cell lysate, human bone marrow whole tissue lysate (adult whole diabetes), HeLa hypoxic (CoCl2) cell lysate, HepG2 hypoxic (CoCl2) cell lysate, HeLa hypoxic cell Lysate, HepG2 hypoxic cell lysate, HIF-1 alpha knockout HeLa cell lysate

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Advanced Verification Data



HIF1A Antibody (PA1-16601)

Figure 8 HIF-1alpha protein levels were stabilized by AA treatment. HIF-1alpha protein levels were evaluated by western blot at different time-points upon AA treatment. (A) mESC incubated for 14h with CoCl 2 (300 uM) a known disruptor of prolyl hydroxylase activity, show increased Hif-1alpha protein levels. mESC without CoCl 2 treatment were used as control and different protein volumes were loaded in the gel. (B) Representative blot for E14 cells showing increased Hif-1alpha protein levels downstream to AA treatment. (C) Densiometric evaluation of HIF-1alpha and actin (loading control) bands show that a statistical significant difference exists between control and treated conditions at 2 and 4 hours for both E14 and R1 mESC. Data shown as protein level fold increase for each one of the AA conditions relative to the respective control. Data were normal and evaluated by one sample T Student tests against a theoretical value of 1. Error bars = SEM and statistical significance is considered when * p<0.05. Cell treatment validation info.

Product Images For HIF1A Polyclonal Antibody



HIF1A Antibody (PA1-16601) in ICC/IF

Immunofluorescent analysis of HIF-1 alpha (green) in HeLa cells either left untreated (left panel) or treated with 0.1 mM Cobalt Chloride (right panel) for 4 hours. Formalin fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 10 minutes at room temperature and blocked with 1% Blocker BSA (Product # 37525) for 15 minutes at room temperature. Cells were probed with a HIF-1 alpha polyclonal antibody (Product # PA1-16601) at a dilution of 1:100 for at least 1 hour at room temperature, washed with PBS, and incubated with DyLight 488 goat-anti-rabbit IgG secondary antibody (Product # 35552) at a dilution of 1:400 for 30 minutes at room temperature. F-Actin (red) was stained with DyLight-554 Phalloidin (Product # 21834) and nuclei (blue) were stained with Hoechst 33342 dye (Product # 62249). Images were taken on a Thermo Scientific ArrayScan at 20X magnification.



HIF1A Antibody (PA1-16601) in ICC/IF

Detection of HIF-1 Alpha (green) in RCC4 cells using Product # PA1-16601. Nuclei (Blue) were counterstained using Hoechst 33258.

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25 References

Western Blot (14)

Immunohistochemistry (5)

Circulation An Important Role for DNMT3A-Mediated DNA Methylation in Cardiomyocyte Metabolism and Contractility. "PA1-16601 was used in Western Blotting to investigate the role of DNA methylation in the normal homeostasis of cardiomyocytes and during cardiac stress." Authors: Madsen A,Höppner G,Krause J,Hirt MN,Laufer SD,Schweizer M,Tan WLW,Mosqueira D,Anene-Nzelu CG,Lim I,Foo RSY,Hansen A,Eschenhagen T,Stenzig J	Species Human Dilution 1:1000 Year 2020
Frontiers in pharmacology	Species
Ginsenoside Rg5 Inhibits Succinate-Associated Lipolysis in Adipose	Mouse
Tissue and Prevents Muscle Insulin Resistance.	Dilution
"PA116601 was used in western blot to determine the effect of ginsenoside Rg5 on adipose dysfunction and muscle	1:1000
insulin resistance"	Year
Authors: Xiao N,Yang LL,Yang YL,Liu LW,Li J,Liu B,Liu K,Qi LW,Li P	2020

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Journal of Cancer Clinicopathological Analysis of HIF-1alpha and TERT on Survival Outcome in Glioblastoma Patients: A Prospective, Single Institution Study. "PA1-16601 was used in Immunohistochemistry to investigate the association of immunohistochemical expression of hypoxia inducible factor-1 alpha (HIF-1), telomerase reverse transcriptase (TERT), isocitrate dehydrogenase 1 (IDH1) and tumor protein p53 with overall survival (OS) in glioblastoma patients."	Species Human Dilution Not Cited Year 2020	
JCI insight Maternal erythrocyte ENT1-mediated AMPK activation counteracts placental hypoxia and supports fetal growth.	Species Mouse Dilution 1:100	
"PA1-16601 was used in Immunohistochemistry-immunofluorescence to demonstrate that the maternal eENT1– dependent uptake of extracellular adenosine signaling plays a role in delivering adequate O2 to the placentas." Authors: Sayama S,Song A,Brown BC,Couturier J,Cai X,Xu P,Chen C,Zheng Y,Iriyama T,Sibai B,Longo M,Kellems RE, D'Alessandro A,Xia Y	Year 2020	

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More applications with references on thermofisher.com

IHC (P) (1) ICC/IF (1) Flow (1) IP (2) ChIP (1)

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