BOSTER BIOLOGICAL TECHNOLOGY
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Anti-HIF-1 alpha Rabbit Monoclonal Antibody

Catalog Number: M00013-3

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Overview

Product Name	Anti-HIF-1 alpha Rabbit Monoclonal Antibody
Reactive Species	Human
Description	Boster Bio Anti-HIF-1 alpha Rabbit Monoclonal Antibody catalog # M00013-3. Tested in WB, IHC, ICC/IF, IP, Flow Cytometry applications. This antibody reacts with Human.
Application	Flow Cytometry, IP, IF, IHC, ICC, WB
Clonality	Monoclonal 17H18
Formulation	Rabbit IgG in stabilizing components, phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. *This antibody is supplied in a stabilized formulation. Compatibility with conjugation reactions depends on the chemistry of the conjugation method used. For conjugation methods that are not compatible with the stabilizing components present in this formulation, a carrier-free antibody format is required.
Storage Instructions	Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	Q16665

Technical Details

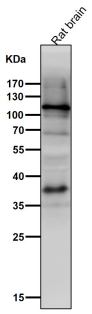
Immunogen	A synthesized peptide derived from human HIF-1 alpha
Isotype	IgG
Form	Liquid
Concentration	0.5mg/ml
Purification	Affinity-chromatography
Suggested Dilutions	WB 1:500-2000

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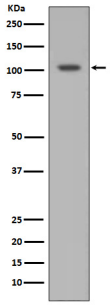
	IHC 1:50-200 ICC/IF 1:50-200 IP 1:30 FC 1:30

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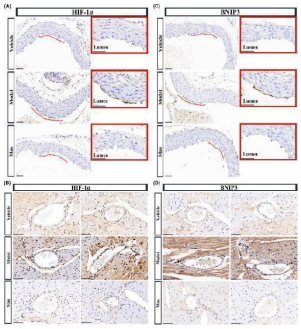
Anti-HIF-1 alpha Rabbit Monoclonal Antibody (M00013-3) Images



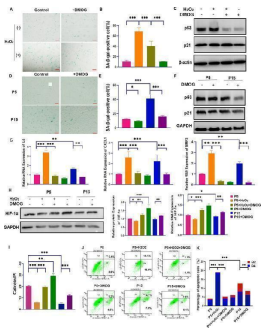
All lanes use the Antibody at 1:1000 dilution for 1 hour at room temperature.



Western blot analysis of HIF-1 alpha expression in Ramos cell lysate.



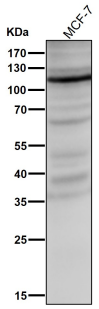
Activation of HIF-1alpha/BNIP3 signaling pathway in artery of KD murine model. A Representative immumohistochemical images for HIF-1alpha expression in aorta (n = 4 per group). Enlarged images of area of interesting (AOI) were indicated with red block diagrams. Scale bar: 50 um. B Representative immumohistochemical images for HIF-1alpha expression in coronary bifurcation arteritis (n = 4 per group). Scale bar: 50 um. C Representative immumohistochemical images for BNIP3 expression in aorta (n = 4 per group). Enlarged images of area of interesting (AOI) were indicated with red block diagrams. Scale bar: 50 um. D Representative immumohistochemical images for BNIP3 expression in coronary bifurcation arteritis (n = 4 per group). Scale bar: 50 um. Index in PubMed under a CC BY license. PMID: 37980402



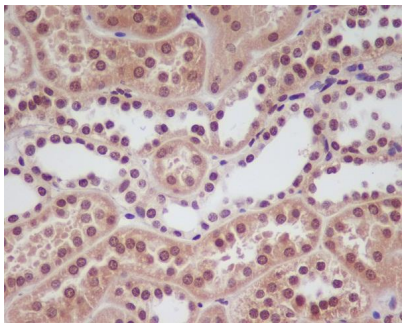
Short-term DMOG treatment reduces MSC senescence by activating HIF-1alpha and decreasing apoptosis. (A , B) Representative images of SA-beta-gal staining showing the proportion of senescent cells in H_2O_2-treated MSCs before and after DMOG treatment. Scale bar = 500 um. (C) Western blot analysis of p53 and p21 protein expression during oxidative stress-induced senescence. (D , E) SA-beta-gal staining in replicative senescence (P15) MSCs, demonstrating the effect of DMOG in reducing senescence markers. Scale bar = 500 um. (F) Western blot analysis of p53 and p21 protein levels in P5 (young) and P15 (senescent) MSCs. (G) Expression levels of senescence-associated genes (IL6, CXCL1, and MMP3) in both senescence models as assessed by qRT-PCR. (H) Western

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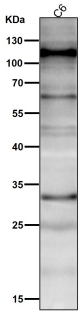
blotting and qPCR analysis showing increased HIF-1alpha protein and mRNA levels in both senescence models after DMOG treatment. (I) Calcein/PI live-dead staining revealed an increase in the proportion of live cells following DMOG treatment in both senescence models. (J , K) Flow cytometric analysis of apoptosis. Error bars represent the mean ± SD of three independent experiments. Statistical significance was set as $p < 0.05$. Full-length blots are presented in Supplementary Materials - WB Raw Data Full size imageIndex in PubMed under a CC BY license. PMID: 40457488



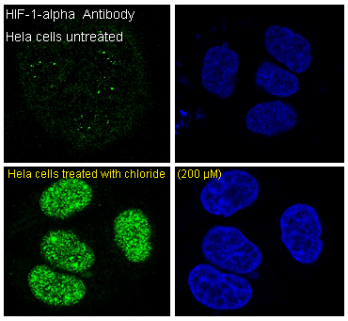
All lanes use the Antibody at 1:1000 dilution for 1 hour at room temperature.



Immunohistochemical analysis of paraffin-embedded human kindey, using HIF-1 alpha Antibody.

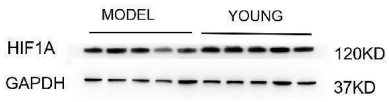


All lanes use the Antibody at 1:1000 dilution for 1 hour at room temperature.



Immunofluorescent analysis of Hela cells, using HIF-1 alpha Antibody.

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Western blot analysis of HIF-1 alpha using anti-HIF-1 alpha antibody (M00013-3). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 80V (Stacking gel) / 120V (Resolving gel) for 2 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1-5: model group-human uterine tissue lysates, Lane 6-10: young group-human uterine tissue- lysates. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-HIF-1 alpha antigen affinity purified monoclonal antibody (A04887-1) at 1:1000 overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at for 1 hour at RT. The signal is developed using an ECL Plus Western Blotting Substrate (Catalog # AR1196-200) with Tanon 5200 system. A specific band was detected for HIF-1 alpha at approximately 120 kDa. The expected band size for HIF-1 alpha is at 120 kDa.

Anti-HIF-1 alpha Rabbit Monoclonal Antibody

For Research Use Only. Not for use in diagnostic procedures.