

Datasheet for ABIN6239804

HIF1A Protein (AA 218-506) (His tag)



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Overview

Quantity:	50 µg
Target:	HIF1A
Protein Characteristics:	AA 218-506
Origin:	Human
Source:	Escherichia coli (E. coli)
Biological Activity:	Active
Purification tag / Conjugate:	This HIF1A protein is labelled with His tag.
Application:	Activity Assay (AcA), Cell Culture (CC)

Product Details

Characteristics:	Tag location: N-terminal His Tag
Purity:	> 95 %
Biological Activity Comment:	HIF1a (Hypoxia-inducible factor 1-alpha) is a subunit of a transcription factor, which functions as a master transcriptional regulator of the adaptive response to hypoxia. The protein chaperone heat shock protein 90 (Hsp90) is a major regulator of different transcription factors, including HIF1a, thus a binding ELISA assay was conducted to detect the interaction of HIF1a and HSP90. Briefly, recombinant human HIF1a were diluted serially in PBS, with 0.01%BSA (pH 7.4). Duplicate samples of 100uL were then transferred to HSP90-coated microtiter wells and incubated for 2h at 37°C. Wells were washed with PBST and incubated for 1h with anti-HIF1a pAb, then aspirated and washed 3 times. After incubation with HRP labelled secondary antibody, wells were aspirated and washed 3 times. With the addition of substrate solution, wells were incubated 15-25 minutes at 37°C. Finally, add 50µL stop solution to the wells and

Product Details

read at 450nm immediately. The binding activity of of HIF1a and HSP90 was shown in Figure 1, and this effect was in a dose dependent manner The binding activity of HIF1a with HSP90.

Target Details

Target:	HIF1A
Alternative Name:	Hypoxia Inducible Factor 1 Alpha (HIF1a) (HIF1A Products)
Background:	Alternative Names: HIF1-A, MOP1, PASD8, Basic Helix-Loop-Helix Transcription Factor, ARNT-interacting protein, Basic-helix-loop-helix-PAS protein MOP1, Class E basic helix-loop-helix protein 78
Molecular Weight:	40kDa
UniProt:	Q16665
Pathways:	Positive Regulation of Peptide Hormone Secretion , Regulation of Hormone Metabolic Process , Regulation of Hormone Biosynthetic Process , Cellular Response to Molecule of Bacterial Origin , Carbohydrate Homeostasis , Transition Metal Ion Homeostasis , Tube Formation , Regulation of Carbohydrate Metabolic Process , Signaling Events mediated by VEGFR1 and VEGFR2 , VEGFR1 Specific Signals , Warburg Effect

Application Details

Application Notes:	Isoelectric Point: 5
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Buffer:	20 mM Tris, 150 mM NaCl, pH 8.0, containing 1 mM EDTA, 1 mM DTT, 0.01 % SKL, 5 % Trehalose and Proclin300.
Preservative:	Dithiothreitol (DTT), Other preservative, ProClin
Precaution of Use:	This product contains ProClin and Dithiothreitol (DTT): POISONOUS AND HAZARDOUS SUBSTANCES which should be handled by trained staff only.