Anti-HIF-1α Rabbit pAb

WL01607

For Research Use Only.Not For Use In Diagnostic Procedures

Product Information

Product name	Anti-HIF-1α Rabbit pAb
Source	Rabbit
Species reactivity	Western blot Human, Mouse, Rat Immunohistochemistry Human, Mouse, Rat
Tested applications	Western blot 1:500 Immunohistochemistry 1:150-1:300 CHIP
	**Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own experiment using appropriate negative and positive controls.*
Molecular Wt.	93 kDa
Pack size	50/100/200/500/1000μl
Storage	Store at -20°C. **Avoid freeze/thaw cycles.**
Storage buffer	Supplied in 20 mM phosphate (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol and less than 0.02% sodium azide

General Information

Background

HIF-1 alpha (HIF1A) is a nuclear protein involved in mammalian oxygen homeostasis. This occurs as a posttranslational modification by prolyl hydroxylation. The HIF1 complex consists of two subunits, HIF-1α and HIF-1β, which are basic helix-loop-helix proteins of the PAS (Per, ARNT, Sim) family. The widely expressed HIF-1α is typically degraded rapidly in normoxic cells by the ubiquitin/proteasomal pathway. Both hypoxic conditions and chemical hydroxylase inhibitors (such as desferrioxamine and cobalt) inhibit HIF-1α degradation and lead to its stabilization. In addition, HIF-1α can be induced in an oxygen-independent manner by various cytokines through the PI3K-AKT-mTOR pathway.

Immunogen

Polyclonal antibody is produced by immunizing animals with a synthetic peptide of HIF-1α.

Purification

Polyclonal antibody was purified by immunogen affinity chromatography.

Pruduct Datasheet

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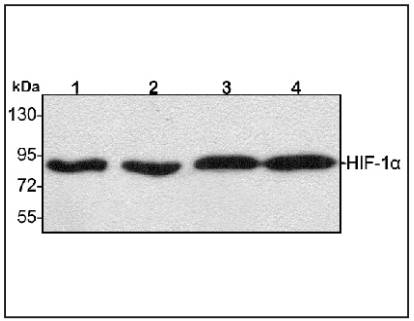
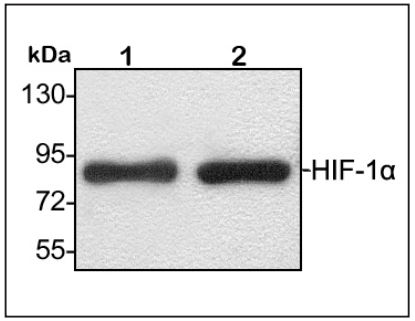
Product Images



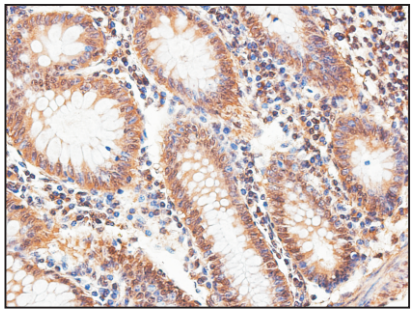
Western blot-Anti-HIF-1α pAb

Lane 1: Human HepG2 cell lysate 24μg
Lane 2: Human Hela cell lysate 24μg
Lane 3: Human BGC-823 cell lysate 24μg
Lane 4: Human MGC-803 cell lysate 24μg
Separation gel: 8% polyacrylamide
Electrophoresis: 100V, 4°C, 3h
Transmembrane: 100V, 4°C, 1.5h
Blocking: 5% w/v nonfat dry milk, 1×TBST, at RT with gentle shaking
Primary antibody: 1:500 in blocking buffer, 4°C, overnight
Visualization: ECL, 30s-2min



Western blot-Anti-HIF-1α pAb

Lane 1: Mouse heart tissue lysate 24μg
Lane 2: Rat brain tissue lysate 24μg
Separation gel: 8% polyacrylamide
Electrophoresis: 100V, 4°C, 3h
Transmembrane: 100V, 4°C, 1.5h
Blocking: 5% w/v nonfat dry milk, 1×TBST, at RT with gentle shaking
Primary antibody: 1:500 in blocking buffer, 4°C, overnight
Visualization: ECL, 30s-2min



Immunohistochemistry-Anti-HIF-1α pAb

Sample: Human stomach cancer tissue
Antigen retrieval: Proteinase K
Primary antibody: 1:150, 4°C, overnignt
Secondary antibody-Biotin: 1:150, 37°C, 1h
Streptavidin-HRP: 1:200, 37°C, 30min
Visualization: DAB

Wanleibio Co.,Ltd. 400-602-0407 sales@wanleibio.com www.wanleibio.com

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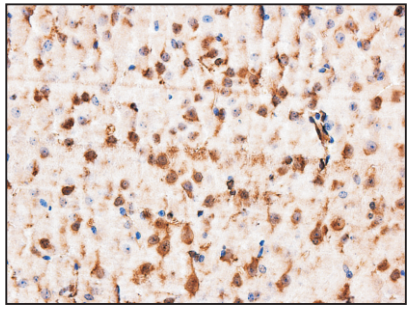
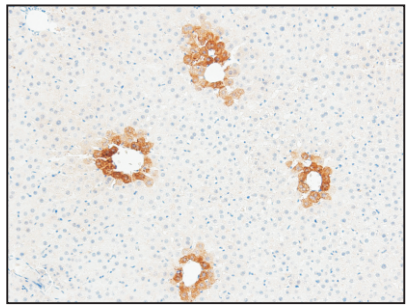


Immunohistochemistry-Anti-HIF-1α pAb

Sample: Mouse brain tissue
Antigen retrieval: pH 9.0 Tris-EDTA buffer
Primary antibody: 1:300, 4°C, overnignt
Secondary antibody-Biotin: 1:150, 37°C, 1h
Streptavidin-HRP: 1:200, 37°C, 30min
Visualization: DAB



Immunohistochemistry-Anti-HIF-1α pAb

Sample: Rat liver tissue
Antigen retrieval: pH 6.0 citrate buffer
Primary antibody: 1:200, 4°C, overnignt
Secondary antibody-Biotin: 1:150, 37°C, 1h
Streptavidin-HRP: 1:200, 37°C, 30min
Visualization: DAB